



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Date: 31/03/2018

TO WHOM IT MAY CONCERN

Sub: Internship completion

This is to certify that Miss. Adishri Adhau, a student of Atharva College of Engineering, Mumbai had joined as Vacation Trainee under Graphics Designing Team from 10th Jan 2018 to 31st Mar 2018 for Internship Program at Kanishka Software Private Limited, Mumbai.

During above-mentioned period her ability to work fast, interpret creative direction and meet deadline was very impressive. She had carried out her work satisfactorily and diligently under the supervision of Manager on various assignments.

We wish her all the best for her future endeavors.

For M/s. KANISHKA SOFTWARE PVT. LTD.

Yours Truly

Authorised Signatory

Vinay Vikram Singh

Director

Kanishka Software Private Limited

202, The Crescent Business Park, Sakinaka Tele Exchange Lane

Saki Naka, Andheri (E) | Mumbai - 400 072

contactus@ksoftpl.com | www.ksoftpl.com



INTERNSHIP LETTER

KSPL/HR/010/2018

Date: 10th Jan 2018

To,
Adishri Adhau

Sub: Internship with Kanishka Software Private Limited

Dear Adishri

It gives me great pleasure to offer you an internship with our company Kanishka Software Private Limited. In addition to confirming the offer, this letter will describe the terms and conditions of your internship.

1. Title:

Your title will be Intern and you will report to Sunil Prajapati or as otherwise directed by the Company Management.

2. Duties:

- I. Graphics Designing
- II. UI Designing

3. Effective Date:

Your internship will begin on 10th Jan 2018.

4. Confidential information

As used in this Agreement shall mean any and all technical and non-technical information including patent, copyright, trade secret, proprietary information, computer files and Company information related to the past, current, future, and proposed services of Company and includes, without limitation, Company property, and Company's information concerning customers, research, financial information, purchasing, business forecasts, sales and merchandising, and marketing plans and information.

5. Nondisclosure and Non-use Obligations

During and after the Internship Period, you shall not divulge or appropriate to your own use or to the use of others, in competition with the Company, any secret or confidential information or knowledge pertaining to the business of the Company, or of any of its subsidiaries, obtained by you in any way during your internship with the Company or by any of its subsidiaries. You may use the Confidential



Ali
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Information solely to perform internship related services under this Agreement for the benefit of the Company.

6. Remedies

If at any time you violate any of the covenants or terms of this agreement, the Company shall have the right to terminate all of its obligations to make further payments under this Agreement.

You shall agree that the Company shall be entitled to an injunction restraining you from any actual or threatened breach of terms of this agreement or to any other appropriate legal remedy.

7. At-Will Internship:

Your internship with the Company is "At-Will." This means that you have the right to terminate your internship at any time and for any reason. Likewise, the Company may terminate your internship with or without cause at any time and for any reason. Accordingly, this letter is not to be construed or interpreted as confirmed employment with the company. As such, the recitation of certain time periods in this letter is solely for the purpose of defining your compensation. It is also not to be construed or interpreted as containing any guarantee of any particular level or nature of compensation.

This letter reflects the entire agreement regarding the terms and conditions of your employment. Accordingly, it supersedes and completely replaces any prior oral or written communication on this subject. This letter may not be modified or amended except by a written agreement, signed by the Company and by you. The offer described above is contingent upon the results of your reference/background check.

We look forward to having you join us and we expect that our relationship will be mutually rewarding.

Kindly acknowledge the duplicate copy of this letter as an acceptance of this offer.

As part of our company HR policy we request you to send us a confirmation of acceptance of this offer which remains valid till 10th Jan 2018.

FOR KANISHKA SOFTWARE PVT. LTD.
Your truly,



AUTHORISED SIGNATORY
Vinay Vikram Singh,
Director,
For Kanishka Software Private Limited

I accept the above offer

[Intern Name]



WE
DESIGN
CODE



[Signature]
PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

www.wedesigncode.in

info@wedesigncode.in

+91 966 470 9580

20th December, 2017
Anujay Ghosh.

INTERNSHIP OFFER LETTER

Dear Anujay,
We Design Code is pleased to offer you an educational internship opportunity as a Web Designing intern. You will report directly to Nisarg Kahane. This position is located in Mumbai / Maharashtra.

You will be receiving a letter of completion of internship for this position and you will be paid a stipend of Rs.5000/- monthly. Additionally, students do not receive benefits as part of their internship program.

For this position, your major duties will include working on various modules of the project, managing partly communications with the client as and when required. Your schedule will be approximately 30hrs per week beginning 1/01/2018. Your assignment will conclude on 31/03/2018.

Please review, sign and return via mail to confirm acceptance, no later than close of business on 27/12/2017.

Congratulations and welcome to the team!

Sincerely,

[Signature]

Nisarg Kahane.
Owner/Co-founder.

For, WE DESIGN CODE

SOLE PROPRIETOR



www.wedesigncode.in
info@wedesigncode.in
+91 966 470 9580

31st March, 2018
Anujay Ghosh




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

LETTER OF INTERNSHIP COMPLETION

Dear Anujay,

We Design Code is pleased to inform you that you have successfully completed your internship as a Web Designing intern. You have proved to be a valuable asset to our organisation and we hope that you have benefited from your tenure, here at our organisation.

We would love to have you on as part of our team in the future and see you grow to your fullest potential. You have successfully completed all your duties and have proved to be a person to look out for in a corporate environment.

You have shown excellent progress in terms of work ethic and learning and we hope that you keep on continuing down this path and achieve all that you hope for. This letter is proof that you have the skills and attitude that will help you move forward at a tremendous pace.

Congratulations and thank you for being part of our team!
Sincerely,



Nisarg Kahane.
Owner/Co-founder.

For, WE DESIGN CODE

SOLE-PROPRIETOR

B/302, Om Siddhi, Plot-9, Sector 8, Charkop, Kandivali (W), Mumbai 400067

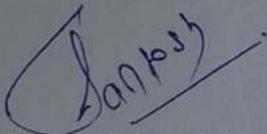
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss. Ashka Ashani has worked with Atos India Pvt. Ltd from June 05, 2017 till 04 August, 2017 as Project Trainee. She has worked on project SIFIX (Siemens Motor Repairs Project) as a part of her internship; she has contributed on the following:

Technologies	Documentation
<ul style="list-style-type: none">• Java, J2EE & Spring• JReports & Integration• Maven Build Tool	<ul style="list-style-type: none">• Installation; Build and Deployment details• REST API Documentation framework.

Her performance was satisfactory and we wish her all the best for future endeavors.

For Atos India Pvt. Ltd,



Name: Santosh Lad
Designation: Manager-Hr




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Date : August 24, 2017

CREDSCOREPLUS PRIVATE LIMITED

Regional office: B wing, 5th floor, Akruti Trade Centre, MIDC, Andheri East,
Mumbai, Maharashtra 400093, India.

Phone: +91 9167518440

Website: www.udhaarsudhaar.in

Date: April 14, 2018

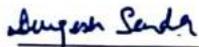



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MUMBAI

TO WHOM IT MAY CONCERN

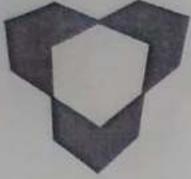
This is to certify that Mr. Dhaval Vasant, S/O- Mr. Jignesh Vasant,, Engineering student from Atharva College of Engineering, Mumbai has successfully completed 03 months (From 5th January, 2018 to 7th April, 2018) long internship programme at this organization. During this period he was assigned a project titled 'Frontend Web Design & Database Management'. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life and career.



Durgesh Sarma

Director



TAP CUBE STUDIOS LLP

605/A2, OMKAR CHS., CHIKUWADI, PADMA NAGAR, BORIVALI(WEST),
MUMBAI 400092, MAHARASHTRA, INDIA

Email: tapcubestudios@gmail.com | Website: www.tapcubestudios.com



[Signature]
PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

Date: August 28, 2017

To Whom It May Concern

Dear Sir/Madam,

We writing this letter to confirm that **Mr. Hardik V. Joshi** is interned by our company, **Tap Cube Studios, LLP**, for a position of **Game Developer**. He will be starting his internship from September 01, 2017, continuing for one (1) month(s) and can be extended based on his performance.

We request you to grant him permission to intern with us.

Also, we would like to request you to overlook his attendance for that period.

Yours faithfully,

[Signature]

Signatory Authority



TAP CUBE STUDIOS LLP

605/A2, OMKAR CHS., CHIKUWADI, PADMA NAGAR, BORIVALI(WEST),
MUMBAI 400092, MAHARASHITRA, INDIA

Email: tapcubestudios@gmail.com ;

Website: www.tapcubestudios.com

Date: 11th March, 2018

To Whomever It May Concern




PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

Dear Sir/Madam,

We are writing this letter to confirm that **Mr. Hardik V. Joshi** is interned by our company **Tap Cube Studios, LLP**, for a position of **Game Developer**. He will be starting his internship from 13th March, 2018, continuing for one (1) month(s) and can be extended on basis of his performance.

We request you to treat this letter as official permission letter and let him intern with us.

For same, we would like you to overlook his attendance for same period.

Thank you.

Yours Faithfully,



Authorized Signatory
Tap Cube Studios LLP



TEAM 4 PROGRESS™

- LET'S DO PROGRESS..... TOGETHER™ -

Internship with Team 4 Progress

Date: - 27th July 2017




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Chandrashekhar Bhausahab Bhosale S/o Bhausahab Nivruti Bhosale

Roll no - BECMPN-1/11

Atharva college of Engineering

Dear Chandrashekhar,

We are delighted & excited to have you in Team 4 Progress as a Web Development Intern. At Team 4 Progress, we believe that our team is our biggest strength and we take pride in hiring ONLY the best and the brightest.

So far you have proved yourself to be an efficient member of the team and a quick learner. We are confident that you would continue to bring more value to table and add to the company's success at the same time learning a lot by working with us.

The duration of virtual internship is from **15th June 2017 – 15th Dec 2017**. Details of Terms and conditions has already been shared with you in email that you are expected to abide throughout the duration of internship for it to hold good.

Let's Do Progress Together !

Regards,



Arvind Mahipal

C.E.O



26th July, 2017



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

To Whom It May Concern

This is to certify that Yatharth Mahesh Sant from Atharva College of Engineering interned with Urja Trust in the Web Development from 10th June 2017 to 26 July 2017.

During his stint with us, he performed to the best of his ability, and was diligent, regular, and hard working in his conduct.

He has worked on the designing and coding of Urja Trust's website which enables us to showcase our cause and work on the digital landscape, and also integrates an online donation facility to connect us with a larger donor base.

Despite being so young, he was extremely professional in his approach, and we were delighted to have him work with us for this period of One & Half months.

Sincerely,

[Signature]

Deepali Vandana
Managing Trustee and CEO
Urja Trust



KRCD (INDIA) PVT. LTD.
PLOT NO.EL-180,TTC INDUSTRIAL AREA MIDC ELECTRONIC ZONE, MAHAPE,
NAVI MUMBAI 400710 TEL.022-27613421/28

Certificate of Internship

to

Mr. Kalp Patel



[Signature]
PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

To whomsoever

This is to certify that Mr. Kalp Patel has successfully completed three months long internship programme of web development. During the period of his internship programme with us, he was found punctual, hardworking and inquisitive. He worked on complex modules of website using Bootstrap, PHP and JS which was fascinating and highly praised by the company. We wish him best of luck for future endeavors.

From 27th February, 2017 to 28th May, 2017

A handwritten signature in black ink, appearing to be 'Kalp Patel', written over a horizontal line.

Signature of Manager




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Date: 31/07/17

To Whom It May Concern

This is to inform you that Ms. Mallika Srinivas Vengarai studying in your esteemed institution, 'Atharva College of Engineering' has been appointed as an intern at our company 'Scalable DataTech' since the 24th of June 2017.

She has been doing a course on Linux with us and will be assigned a project as soon as she finishes the course.

We wish her every success in her future.

For Scalable DataTech





PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI



Eduperience
Give wings to your Future

CERTIFICATE OF INTERNSHIP

This Certificate is proudly awarded to

Mohid Shaikh

In recognition of his/her dedication and outstanding contribution to Eduperience's Content Writing internship held in the month of Sept'17 and Oct'17. He/she was responsible for preparing ,creating and delivering high quality content for our facebook page and website on variety of topics. He/She was found dedicated throughout the internship. We wish him/her all the best for the future endeavours.



Swaleh Shamim

Mohd Swaleh Shamim

Founder & CEO
EDUPERIENCE

INTERNSHIP OFFER WITH STUDYKITE TECHNOLOGIES PRIVATE LIMITED

Date: - January 24, 2018



PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

Monika Gawade
monika2491997@gmail.com
+91 7039382046

Dear Monika,

I am delighted & excited to welcome you to Studykite as a Web development Intern. I am confident that you would play a significant role in the overall success of the venture and wish you the most enjoyable, learning packed and truly meaningful internship experience with Studykite Technologies Private Limited. Your learning is now our responsibility.

Your appointment will be governed by the terms and conditions presented in the Annexure A.

We look forward to you joining us. Please do not hesitate to call us for any information you may need. Also, please sign the duplicate of this offer as your acceptance and forward the same to us.

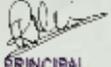
Congratulations!

Tanvi Jagtap
Founder and Director

Pur
Keep it in our records.

Annexure A




PRINCIPAL
ATMA JAYA COLLEGE OF BUSINESS

You shall be governed by the following terms and condition of service during your internship with Studykite Technologies Private Limited, and those may be amended from time to time.

1. You are being hired as a Web development Intern and Tanvi Jagtap would be your Reporting Manager and Mentor during the internship. As a Web development Intern you would be responsible for developing various modules of studykite.com as assigned by your mentor.
2. Your date of joining is 05, February 2018 and the duration of the internship would be 2 months. During this time you are expected to devote your time and efforts solely to Studykite work. You are also required to let your mentor know about forthcoming events (if there are any) in advance so that your work can be planned accordingly.
3. All the work that you will produce at or in relation to Studykite Technologies Private Limited will be the intellectual property of Studykite Technologies Private Limited. You are not allowed to store, copy, sell, share, and distribute it to a third party under any circumstances. Similarly you are expected to refrain from talking about your work in public domains (both online such as blogging, social networking site and offline among your friends, college etc.) without prior discussion and approval with your mentor.
4. We take data privacy and security very seriously and to maintain confidentiality of any students, customers, clients, and companies' data and contact details that you may get access to during your internship will be your responsibility. Studykite Technologies Private Limited operates on zero tolerance principle with regard to any breach of data security guidelines. At the completion of the internship you are expected to hand over all Studykite Technologies Private Limited work/data stored on your Personal Computer to your mentor and delete the same from your machine.
5. During the appointment period you shall not engage yourselves directly or indirectly or in any capacity in any other organization or company (other than your college). In the event of breach of this condition, this appointment is liable to be terminated forthwith by the company. In addition, you shall be liable to pay liquidated damages to the Company of an extent estimated by the Company.
6. Under normal circumstances either the company or you may terminate this association by providing a notice of 30 days without assigning any reason. However, the company may terminate this agreement forthwith under situations of in-disciplinary behaviours.
7. You are expected to conduct yourself with utmost professionalism in dealing with your mentor, team members, colleagues, clients and customers and treat everyone with due respect.
8. Studykite Technologies Private Limited is a start-up and we love people who like to go beyond the normal call of the duty and can think out of the box. Surprise us with your passion, intelligence, creativity and hardwork – and expect appreciation & rewards to follow.
9. Expect constant and continuous objective feedback from your mentor and other team members and we encourage you to ask for and provide feedback at every possible opportunity. It's

your right to receive and give feedback – this is the ONLY way we all can continuously push ourselves to do better.



[Handwritten Signature]

PRINCIPAL
STUDYKITE COLLEGE OF ENGINEERING
MUMBAI

10. Empower people for mastery, Be in Integrity – both the principles are core of what Studykite Technologies Private Limited stands for and we expect you to imbibe them in your day to day actions and continuously challenge us if we are falling short of expectations on either of them.

11. You will be provided Rs. 4000/- per month as stipend. This will be provided at the end of the month. All the office related expenses (phone calls etc., if any) would be reimbursed on actual basis.

12. Do not use abusive language in any form in verbal, written or digital communication. As our intern, you represent our company and our brand. We have **zero tolerance for disrespectful behaviour**. We expect our employees to be polite and gracious at all times. Also, if anyone on this office premises behaves inappropriately with you, bring it to my notice immediately without any hesitation.

13. Your work timings are fixed as follows

1. Tuesday, Wednesday, Thursday – 12 noon to 5pm.
2. Saturday – 9 am to 5 pm. This includes a 30 minute lunch break.

14. You are expected to be on time to office. If, because of un-avoidable circumstances you are late, please inform your mentor as soon as you know that you are going to be late.

15. You are expected not to use facebook, whatsapp, sms, Instagram, twitter, youtube etc when you are in office.

16. If you are not well, or there is some emergency, and you will not be coming to office, please inform your mentor via sms or email.

17. You are not allowed to do your college related work in office. Similarly, you are not allowed to do office work in college.

18. Please inform your mentor about your college exam schedules as soon as they are out.

I, Monika Manik Gawde, have agreed, read and understood all the terms and conditions of this Internship letter as well as Annexure hereto and affix my signature in complete acceptance of the terms of the letter.

Date: 25/1/2018

Signature: Monika

Place: Mumbai

Name: Monika Gawde




PRINCIPAL
ATKARVA COLLEGE OF ENGINEERING
MUMBAI

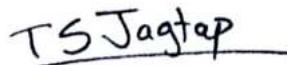
CERTIFICATE OF COMPLETION

WE PRESENT THIS CERTIFICATE TO

MONIKA MANIK GAWADE

IN APPRECIATION FOR YOUR WORK AS AN INTERN AT
STUDYKITE TECHNOLOGIES PRIVATE LIMITED.

AWARDED THE 10TH DAY OF APRIL 2018.



TANVI JAGTAP

FOUNDER - STUDYKITE TECHNOLOGIES PVT LTD

Experience Letter for Internship

10th April, 2018.



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

TO WHOMSOEVER IT MAY CONCERN

This letter is to certify that Ms. Monika Gawade has successfully completed her internship program of 2 months with Studykite Technologies Private Limited. The internship tenure was from 8th Feb, 2018 to 7th April, 2018. She was working on various features of the website studykite.com.

During the span, we found her a reliable, focused and responsible person. She worked on html, css, javascript, bootstrap and python. She was open to feedback, and worked on the assignments iteratively till she got it right. She took on the challenging task of including open source code into our website. She was able to navigate the steep learning curve of including third party open source code into our software.

Monika also followed all the structures and processes carefully, and documented all her work regularly. She was an asset to our organization.

We wish her a bright future.

Sincerely,

[Signature]
TS Jagtap



Tanvi Jagtap,

Founder - Studykite Technologies Private Limited.

22nd January 2018

To,

Burhanuddin Rampurawala
97/402 Poonam Complex
Shanti Park, Mira Road East
Mumbai - 401107



Subject: Offer of Internship

Dear Burhanuddin,

Congratulations! We are pleased to offer you an Internship in our organization, Varsito Solutions Private Limited from 23 January 2018 to 25th March 2018.

Your place of work will be #16/A, 2nd Floor, Krishna Reddy Colony, Domlur Layout, Bangalore - 560071. Your joining date will be 23rd January 2018 and normal working hours are 9.30am to 6.30 pm with 30 minutes lunch break Monday through Friday. However due to business exigencies you may be required to work over weekends, at different timings or travel outside Bangalore if and when required.

We congratulate you on your appointment and wish you success.

We are confident that your contribution will take us further in our journey. We assure you of our support for your professional development and growth.

Your sincerely

Swathi Komandur



Director

22nd January 2018

To,

Harshit Shetty
F-2/11, OShiwara Quarters,
BEST Nagar, Goregoan (West)
Mumbai - 400104



Subject: Offer of Internship

Dear Harshit,

Congratulations! We are pleased to offer you an Internship in our organization, Varsito Solutions Private Limited from 23 January 2018 to 25th March 2018.

Your place of work will be #16/A, 2nd Floor, Krishna Reddy Colony, Domlur Layout, Bangalore - 560071. Your joining date will be 23rd January 2018 and normal working hours are 9.30am to 6.30 pm with 30 minutes lunch break Monday through Friday. However due to business exigencies you may be required to work over weekends, at different timings or travel outside Bangalore if and when required.

We congratulate you on your appointment and wish you success.

We are confident that your contribution will take us further in our journey. We assure you of our support for your professional development and growth.

Your sincerely

Swathi Komandur



Director

Metamug Technologies LLP
115-B/1, Gaikwad Nagar,
Malad (West), Mumbai - 400095



[Signature]
PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI



Dear Pavan Kamath,

We're delighted to extend this offer of employment for the position of Software Engineer with Metamug Technologies LLP. Please review this summary of terms and conditions for your anticipated employment with us. If you accept this offer, your start date will be another mutually agreed upon date and you would report to **Mr. Anish Hirlekar**.

Please find below the terms and conditions of your employment, should you accept this offer letter:

Position. Your title will be as “**Software Engineer**”. This is a remote position. By signing this letter of agreement, you confirm that you have no contractual commitments or other legal obligations that would prohibit you from performing your duties for the Company.

Cash Compensation. The Company will pay you a stipend at the rate of Rs 4000 per month, payable in accordance with the Company's standard payroll schedule. This stipend will be subject to adjustment pursuant to the Company's employee compensation policies in effect from time to time.

Performance: Performance will be evaluated for 6 months subject to confirmation if found satisfactory.

Hours and Compensation. This is a remote position requiring approximately 30 hours per week.

Employment Relationship. Employment with the Company is for no specific period of time. Your employment with the Company will be “at will,” meaning that either you or the Company may terminate your employment at any time and for any reason, with or without cause. Any contrary representations that may have been made to you are superseded by this letter agreement. This is the full and complete agreement between you and the Company on this term. Although your job duties, title, compensation and benefits, as well as the Company's personnel policies and procedures, may change from time to time, the “at will” nature of your employment may only be changed in an express written agreement signed by you and a duly authorised officer of the Company (other than you).

Termination. The Company reserves the right to terminate employment of any employee for just cause at any time without notice and without payment in lieu of notice. The Company will be entitled to terminate your employment for any reason other than for just cause, upon providing to you such minimum notice as required by law.

Privacy. You are required to observe and uphold all of the Company's privacy policies and procedures as implemented or varied from time to time. Collection, storage, access to and dissemination of employee personal information will be in accordance with privacy legislation.

Interpretation, Amendment and Enforcement. This letter agreement supersedes and replaces any prior agreements, representations or understandings (whether written, oral, implied or otherwise) between you and the Company and constitute the complete agreement between you and the Company regarding the subject matter set forth herein. This letter agreement may not be amended or modified, except by an express written agreement signed by both you and a duly authorised officer of the Company.

You may indicate your agreement with these terms and accept this offer by signing and dating this agreement on or before 1/7/2017. Upon your acceptance of this employment offer, Metamug Technologies will provide you with the necessary paperwork and instructions.

Sincerely,

Deepak Mishra




PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

Signatures:

Company Representative (Sign)

Date **13-03-2018**

Applicant (Sign)

Date

June 6, 2018

Ms. Sanjana Gosavi



[Signature]
PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

Dear Sanjana,

Congratulations!

You have been selected for the ICICI Prudential Summer Internship Program 2019.

The said Summer Internship Program 2019 will be starting from June 15, 2018 and you will be based at Mumbai. Your internship will automatically terminate on July 17, 2018 without any further notice and thereafter you shall not have any right or lien of the employment on the Company.

We are confident that this assignment will be a good opportunity for you to learn and contribute to our organization. You will have a Project Guide and a Mentor for one month who would guide you in your assignment. Your project details will be intimated to you shortly.

In our endeavour to make the summer internship an enriching experience for you we will ensure regular review of your Project. At the end of the Project you are required to submit a report and make a presentation to your Project Guide and a Panel of Experts.

In case your project is short listed by the Panelists, and depending upon your performance during your internship, you may be issued a separate offer letter for the purposes of employment with the Company. However, the employment cannot be claimed by you as a matter of right and shall be on the sole discretion of the Company.

We look forward to your joining the company and wish you successful Internship Program with our organization.

For ICICI Prudential Life Insurance,

[Signature]

Yours faithfully,
Vishal Bhandare

Sr. Manager - Human Resources



PRINCIPAL
ATMARVA COLLEGE OF ENGINEERING
MUMBAI

KRCD (INDIA) PVT. LTD.

PLOT NO.EL-180,TTC INDUSTRIAL AREA MIDC ELECTRONIC ZONE, MAHAPE,
NAVI MUMBAI 400710 TEL.022-27613421/28

Certificate of Internship

to

Mr Siddharth Potty

To whomsoever it may concern

This is to certify that Mr. Siddharth Potty has successfully completed three months long internship programme of production and resource management. During the period of his internship programme with us, he was found punctual, hardworking and inquisitive. He worked on solving production line issues and solving resource quench. We wish him best of luck for future endeavors.

From 5thth July, 2017 to 5th August, 2017

Signature of Manager



Dr. Deepak B. Phatak
Professor




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Department of Computer Science
and Engineering
Kanwal Rekhi Building
Indian Institute of Technology Bombay
Mumbai 400076
Tel.: +91 22 25767747 (O)
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Letter of Appreciation

Presented to

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*We recognize his/her contribution as a **Discussion Forum Moderator** in the successful completion of the eight-week MOOC: **SKANI101xF: Basic 3D animation using Blender**, conducted by IITBombayX between September 5th to December 12th, 2017.*

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IITB Summer Internship 2017



Project Report

Fingerspelling - Sign Language Tool

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Summer Internship 2017 Project Approval Certificate

Department of Computer Science and Engineering Indian
Institute of Technology Bombay

The project entitled "Fingerspelling - Sign Language Tool" submitted by Mr. Tejas Nanaware, Mr. Romey Christo, Mr. Bhuvanesh and Ms. Suchismita Debnath is approved for Summer Internship 2017 programme from 9th May 2017 to 5th July 2017, at Department of Computer Science and Engineering, IIT Bombay.

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Place: Indian Institute of Technology Bombay

Date: July 5, 2017



Declaration by the Students

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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III. Acknowledgement

We, the summer interns of the group Fingerspelling - Sign Language Tool, are overwhelmed in all humbleness and gratefulness to acknowledge our deep gratitude to all those who have helped us put our ideas to perfection and have assigned tasks well above the level of simplicity and into something concrete and unique. We, wholeheartedly thank Prof. Deepak B. Phatak for having faith in us, selecting us to be a part of his valuable project and for constantly motivating us to do better. We thank Dr. Sameer Sahasrabuddhe for providing us the opportunity to work on this project. We are also very thankful to our mentor Mr. Nitin Ayer for his valuable support and suggestions. He was and is always there to show us the right track when needed help. With help of his brilliant guidance and encouragement, we all were able to complete our tasks properly and were up to the mark in all the tasks assigned. During the process, we got a chance to see the stronger side of our technical and non-technical aspects and also strengthen our concepts. Last but not the least, we wholeheartedly thank all our other colleagues working in different projects under Prof. Phatak for helping us evolve better with their critical advice.



IV. Abstract

Fingerspelling - Sign Language Tool enables you to learn Indian Sign Language (ISL). The tool has an active feed that helps you to learn the basic finger spellings, that is, the Indian Sign Language gestures for the english alphabets A-Z. The application has been made in order to promote the knowledge of Indian Sign Language and aid the teachers at the speech impaired schools so that each student gets an individual attention. We have developed this application as interpretation medium between someone who doesn't know sign language to someone who knows. It benefits the speech and hearing impaired people and acting as a bridge for their communication.

The tool gives you an option to learn with a Blender based Windows Game, a web application and a python based image processing application to help in the gesture detection.

The main focus of this application are three modules: 'Learn', 'Practice', 'Test' which help you to learn the Indian Sign Language with no software cost and minimal hardware requirements. The existing systems that aid teaching Indian Sign Language are expensive and require additional expensive hardware components like Xbox Kinect [3] or Arduino Smart Gloves [8] whereas, our system can be implemented using just a low end computer with a webcam.



V. Introduction

Speech impairments is a very common problem globally and in India, there are very few schools that teach sign language [6]. Moreover there are very few teachers available in the schools. Our system helps you to learn sign language with ease. The system focuses mainly on the alphabet fingerspelling because alphabets are the basic building blocks of any language.

The system is made with a user interface for ease of access. In this system, you will find 3D models of two hands as Indian sign language uses both hands to sign unlike American Sign Language which uses only one hand.

The system provides you with an active game like display that promotes 'Learn while you play'. User has to press a key on the keyboard and then gets the corresponding animation for the gesture of that alphabet. For those who aren't comfortable with keyboard or want to learn on a mobile or tablet interface, they can use our hosted web application that has buttons labelled 'A' to 'Z'. On clicking the buttons, the animated 3D model is shown.

In the schools, major problem faced by the teachers is that they have to go to individual student to correct the gesture if the student is doing the gesture wrong. Our image processing section solves this problem very well as it takes the live video feed and displays a box if the gesture is correct.

The purpose of our Application is to make people learn the Indian Sign Language easily without the help of a teacher at no cost for the software. The system made is efficient enough to run even on a low end machine and the modules are made independent of each other. "The Learn Module" is implemented as a Web Application and as a Windows Application. These modules require a minimal hardware as the Web Application can also run on Mobile and Tablet devices as well. The windows application can run on Windows 7 or higher with 160GB Hard disk storage and 1GB RAM and Graphics Card.

"The Practice and Test Modules" are implemented using Python and hence can run on Windows, Linux and Mac OS. Even these modules require minimal system requirements and can run efficiently with the same system specifications as those for the learn module.



VI. Objectives

1. Explore various Sign Languages, single hand and both hand gestures.
2. Create a library of animated 3D models for Indian Sign Language gestures.
3. Create gesture recognition software (using Webcam) having minimal hardware requirements.
4. Create interactive application/s (local/web based) which promote learning of Indian Sign Language, using **Learn**, **Practice**, and **Test** modules.

VII. Tech Stack

Fingerspelling - Sign Language tool aims at teaching Indian Sign Language. It teaches you the sign language using its three modules: learn, practice, test. The tool is made with various technologies as stated.

- 1) Desktop Application
 - a) It consists of a Windows App that shows the gestures helping you to learn.
 - b) 3D Models and Animations made using Blender.
 - c) App made using Blender Game Engine.
- 2) Web Application
 - a) It consists of a Web App that shows the gestures helping you to learn.
 - b) 3D Models and Animations made using Blender.
 - c) Blender animations uploaded to SketchFab.
 - d) SketchFab "iframe" is embedded into the Web Page.
 - e) Web Application made using HTML, PHP, CSS, JavaScript.
 - f) Page template made with Bootstrap Framework.
 - g) Heroku Free Hosting [7] for deployment of the app.
- 3) Video Analysis
 - a) It helps you to practice or test the gestures.
 - b) Image processing done using OpenCV package.
 - c) Python 2.7 was used to make the application.

Installation Instructions

- 1) Web Application
 - a) Visit <http://fingerspelling.herokuapp.com> as the application is hosted.
 - b) For issues and changes, send pull request at <https://github.com/Tejas-Nanaware/Sign-Language-Tool>
- 2) Desktop Application
 - a) Since Blender Game Engine Builds the application, ensure you have all the files of the Windows application.
 - b) Run the application file in the folder.
- 3) Video Analysis
 - a) Download Python 2.7.



b) Install additional python packages, OpenCV (version 3.2), MatPlotLib (version 2.0) and NumPy (version 1.12.1).

i) You can also Install packages using Python-Pip by running this command:

```
python -m pip install numpy matplotlib opencv-python
```

c) Run the python file for the corresponding alphabet that you want to practice or test and perform the gesture in front of your video camera.

d) To Train Gesture Detection, install these packages your Linux Machine. You can use these commands:

```
apt-get update
```

```
apt-get install python3 python git libopencv-dev python-pip
```

```
python3-pip htop
```

```
python3 -m pip install numpy matplotlib opencv-python
```

```
python -m pip install numpy matplotlib opencv-python
```



VIII. Problems Faced

Speech-language problems are the most common disability[6]. Even though there are so many people with speech impairments, not many people know the sign language. This creates a lot of problem in the society[5]. This lack of knowledge among the people, causes speech impairments to be considered as a form of being handicapped. Many problems are faced by them, some of which include:

1. *Communication*

Communication becomes a major barrier for the speech impaired people as not many people know the sign language. Even while watching a television, if proper subtitles are not there, then a companion is required to watch the movie. While contacting someone, strict messaging like SMS, email or some written communication is required and not all have access to some of these privileges.

2. *Transportation*

Transportation becomes even a bigger barrier among the hearing impaired people as the transit system in India is not planned properly. The transportation system is not developed to accommodate all types of people in the society. There are cases where a hearing impaired person fails to board the train or bus as there is inadequate visual communication in some areas. This creates a major imbalance and creates a communication barrier. An otherwise, simple task of crossing the road is difficult for the hearing impaired, as the traffic system in India is not effectively managed as people are always in a hurry and break traffic rules relying on horns.

3. *Social Stigma*

Speech impaired people face many difficulties as they are not accepted in some social cultures. This arises a social stigma causing a barrier, creating a feeling of disapproval. This increases a level of dependency among the people who are speech impaired.

A. Teachers and Students

1. *Visual communication access*

Every student should have a clear vision about what the teacher is teaching. Since all the communication is done using gestures, teachers require to see that the student is performing the gesture correctly and also the student should be



able to see the gestures correctly. Also same is the case for lip reading as it plays a vital role in communication using Sign Language.

2. Similar Gestures and Lip movements

Many gestures that are to be performed are similar and creates a confusion in communication. Also many english alphabets have a similar problem as they create a lot of confusion among the students. Teachers find it very difficult to teach the students because of this confusion.

3. Different pace at which a student learns

This is a common problem when it comes to teaching anything. In a class, the students have different learning paces. When it comes to sign language, this gap between learning the sign language is much more difficult to manage. This also consumes a lot of time as the teacher cannot proceed till every student learns. This gap creates a feeling of negligence among the students if the teacher paces forward.



IX. Fingerspelling - Sign Language Tool

Our tool marks a remarkable change as it overcomes many disadvantages of the existing systems. This system will help in learning, practicing and testing our skills in the Indian Sign Language. The system revolves around three modules: 'Learn', 'Practice', 'Test'. These modules have an aesthetic 3D appearance that will help in better and faster learning of the Indian Sign Language.

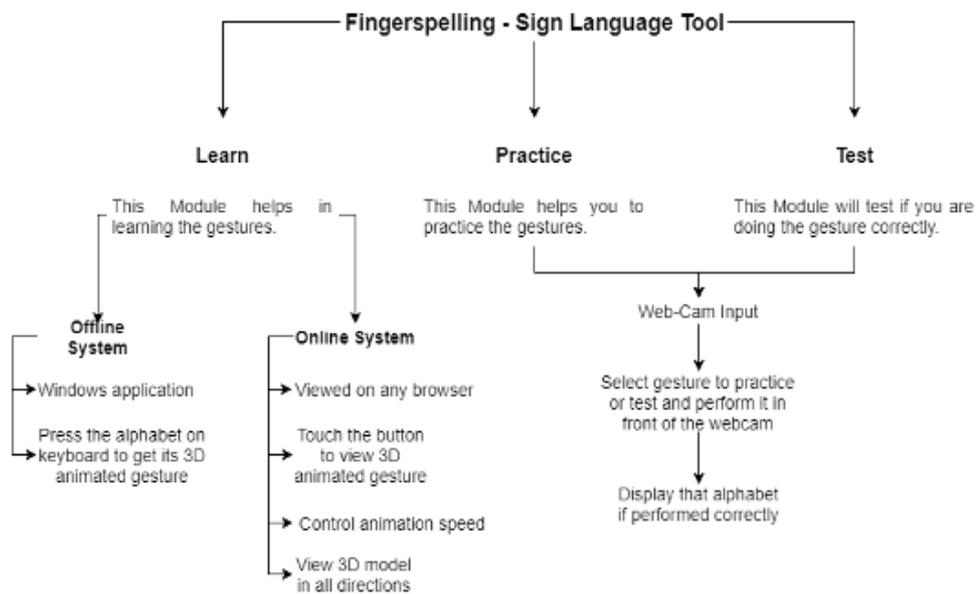


Fig 1: About our System

Fig 1 shows a detailed information about how our system works. Our system uses advanced 3D modeling techniques that will help in teaching the gestures accurately. A detailed explanation of the working of our system is described as follows.

The tool follows an Animation model for the 'Learn' Module. Animation sequences provide a better user experience just like a teacher teaches us. We chose to have 3D model of hands for the fingerspelling gestures. 3D models give you a perfect way in which sign language can be taught as by the 3D gestures, you get to see the gesture from all angles and how should your gesture be.

A. Alphabets to Indian Sign Language Gestures

The 'Learn' Module contains two versions where the English Alphabets A to Z are shown in Indian Sign Language. The two versions of the Alphabets to Sign Language are

1. Windows Application (Stand-Alone .exe file)
2. Web Application



The Web Application can be used on any device which has access to the internet and a browser. These Applications make learning Indian Sign Language Alphabets easier.

1. Windows Application

It is a Self-Learning Stand-alone application which is developed for people who need to learn Indian Sign Language with the help of a computer at ease.



Fig 2: Splash Screen

The application starts with a simple splash screen as shown in the Figure 2 with instructions that will guide you to know about the application and how to start learning.

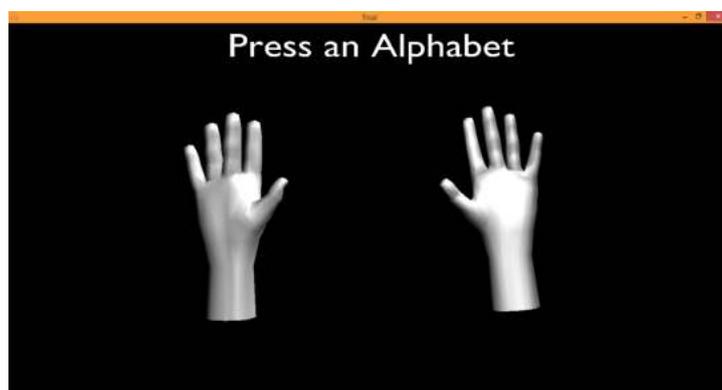


Fig 3: Starting State

Two hands are shown which is the starting state of the Interactive Application. In Fig 3, you can see the starting point of the application where you press alphabet to know the corresponding gesture.

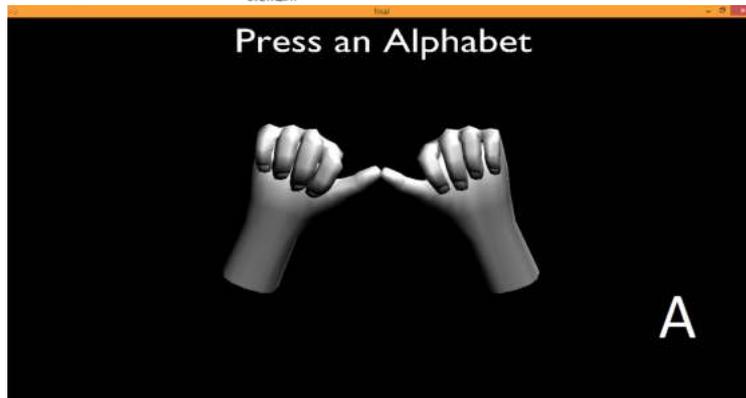


Fig 4: Gesture for 'A'

The application has a friendly working system where the user must press an alphabet on the keyboard and the Indian Sign Language gesture will be displayed as an Animation. Fig 4 is an example which shows the Indian sign language gesture for 'A'.

The process of building the 'Learn' module started by using Blender 3D to create 3D Model of the hands. But later a free for Non-commercial use 3D model of both the hands was found in the Internet that were rigged, textured and ready for animation [9]. This hand model was used as it saved a lot of time in the modelling process and rigging. The texture of the hand was removed, and a plain material was added to it.

Using the 3D model of the hands, animations for each alphabet was created. It took around 10 mins per alphabet to be animated. Each Animation was a separate .blend File(Used by Blender 3D).

The separate .blend files were put into a single .blend file by copying the animations alone. This resulted in a smaller file size (Approx. 1.3 MB). Whereas the total size of all the separate animation files was larger (Approx 34.2 MB).

The Application contains a nice and friendly User Interface which helps the Users to easily interact with the Application. The single animation file which has around 943 frames of animation was used to create the standalone application of the Learn Module using the Blender Game Engine. The Keyboard Actuators, a functionality in Blender game engine was used to take input of alphabets and show the respective animation as the output. It was done by specifying the start and end keyframes for the specific letter. Finally the Stand-Alone application was built. The Stand-Alone version of the 'Learn' module is an executable file (.exe)

The Stand-Alone 'Learn' Module was tested and it very well serves the purpose. It is helpful in learning the alphabets for beginners without requiring a teacher. It



runs on a low specification computer too. The size of the application is 148 MB. Though the application is limited to only learning the alphabets for now , it does the work of making the user learn the alphabets easily.

2. Web Application

There is an Online Version of the 'Learn' module which is helpful in learning the Indian Sign Language on any Device which has an Internet Connection and a browser.

This version does not need any Keyboard Input for displaying the Animations. The Alphabets are displayed and can be selected using a mouse or touch depending on the device being used and the animations can be played.

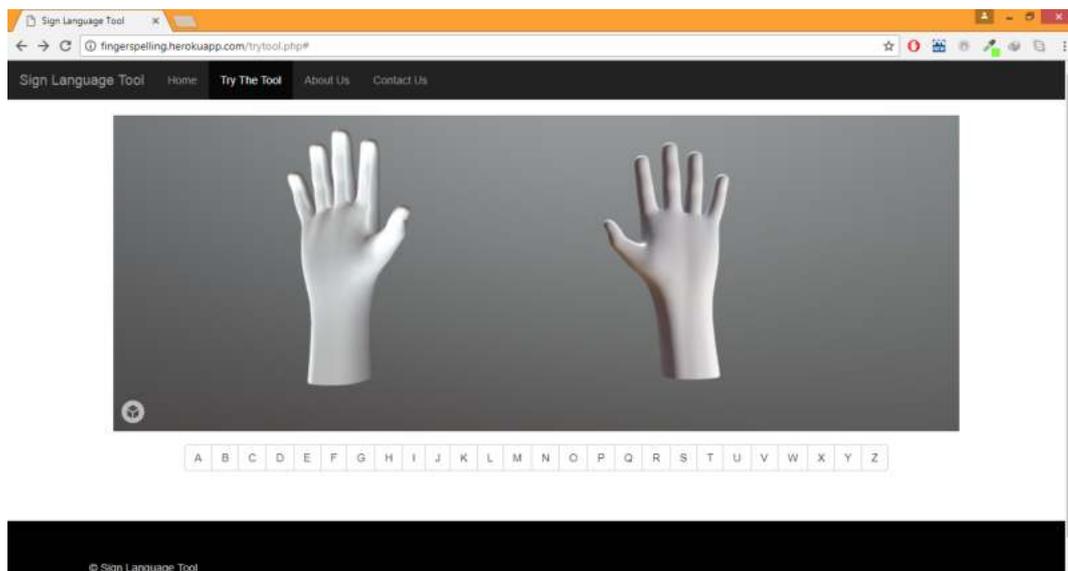


Fig 5: Alphabets displayed

The Figure 5 shows the Alphabets displayed which can be selected using a mouse or touch based on the device. The Starting State is also shown.

The Online Version of the 'Learn' Module was built by adding the separate .blend files of the animations to Sketchfab. The Sketchfab files were embedded to the site and can be accessed easily without the need for a keyboard. This Version of the 'Learn' Module gives the user full freedom to orbit in the 3d viewport and learn the animations.

This version of the 'Learn' Module is open for all platforms that have access to Internet connection and a browser. The models in this version have functionalities such as free orbiting in the viewport , pausing animation , changing speed of animations and many more functions.

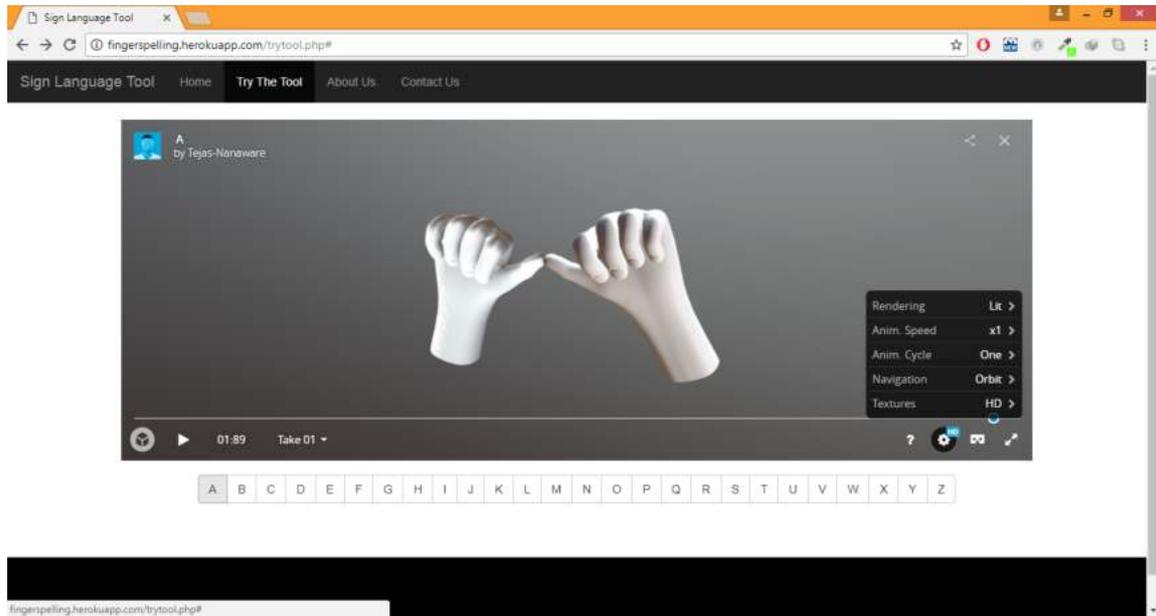


Fig 6: Functionalities

The Figure 6 shows the functionality of orbiting in the viewport which gives the freedom of viewing the model and the animations from any angle. Features such as choosing different types of Rendering , Animation speed, Animation cycle and Navigation can be done. This also helps you in viewing the gestures in VR Headset. This is especially a great feature as all students learn at different paces so each student can select the alphabet and adjust the speed of the animation allowing the slow learners and fast learners to go according to their pace.



B. Sign Language Gesture Detection

Image processing helps you to practice and test if you are doing the sign gestures properly. This basically is implemented in the 'Practice' and 'Test' modules.

Like said earlier, there are very few schools that teach Sign Language. Moreover these schools face a serious shortage of teachers. When a student wants to learn the sign language, the teacher starts teaching from these basics, that is, the gestures from A-Z. The students do the gestures just by imitating the teacher so there might be a chance that the student is doing the gesture in an incorrect manner. To prevent this, the image processing and video analysis part comes in hand.

This part is required in two modules, 'Practice' and 'Test'. In these cases, the student performs gesture in front of the webcam and the video will recognize the corresponding gesture. There are existing systems that perform gesture recognition for Indian sign language but these systems require costly equipments like Kinect, Arduino or Smart Gloves. In our system, we have reduced this additional cost to Zero as our system does not require any additional components like Kinect or gloves.

1. Mechanism

The video analysis part is implemented using OpenCV, Python. You can perform contour mapping and neural networks but these systems cannot be improved to a larger extent. Moreover contour mapping requires to subtract background from foreground, in this case, the hand gesture from the rest of the background. This requires thresholding of the image in which, we subtract the foreground based on its color which becomes a problem as the hand color and body tan differs from person to person.

Instead of this, we have implemented a different mechanism for hand gesture detection called as a 'Haar Cascade'. Object Detection using Haar feature-based cascade classifiers is an effective object detection method proposed by Paul Viola and Michael Jones in their paper, "Rapid Object Detection using a Boosted Cascade of Simple Features" in 2001[1].

This is a Machine Learning based feature where we have positive and negative samples and perspective transformations are applied to them thus creating artificially a bunch of positive images from a single image. Another approach is that we can actually have a bunch of positive images and then apply perspective

transformations. Thus creating thousands of positive images that can be useful for training purposes.

Cascade training works just like convolutional kernel. Each feature is a single value obtained by subtracting sum of pixels under white rectangle from sum of pixels under black rectangle[1]. Training process is slow and it gets slower stage by stage but more stages we train, the better will be the performance.

Haar cascade training is a very good approach for object detection as it allows us to create a customized cascade classifier for object detection. In our case, the finger-spellings or the alphabet gestures are fixed for particular alphabets so creating a cascade classifier for these gestures is a very efficient way to detect it. Furthermore, this application being open sourced, there is a chance for improving the detection process by training the cascades to more stages. So anyone willing to improve this system can just improve the cascade detection.

Python has a great application in machine learning areas. Libraries like scipy, sklearn, tensorflow and more are built especially for the machine learning aspects. Also python is easier to understand, the syntax being simpler. The application makes use of the haar cascade that is detected and then OpenCV detects the gesture which was trained by the cascade. The cascade is the main part of the project. Using these cascades, you can implement this system using OpenCV in C++.

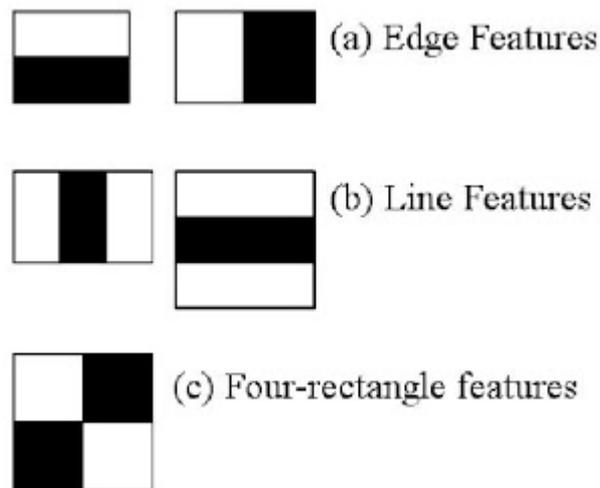


Fig 7: OpenCV Haar Cascade[1]

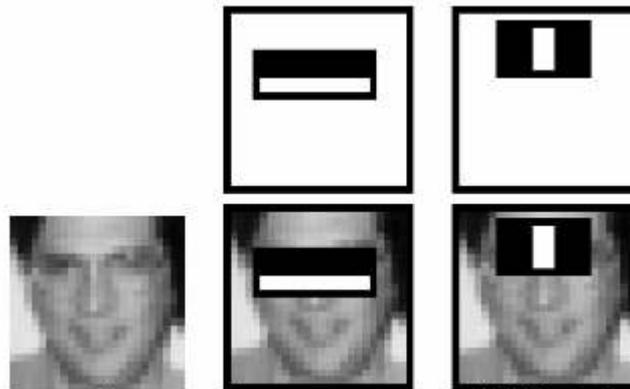


Fig 8: Haar Cascade for Eye Detection[1]

The Haar feature detection requires a lot of negative images and positive images. In some cases, we can generate positive images from a bunch of negative images. Then we need to extract the Haar features from the positive images that we have generated. For this, haar features shown in Fig 7 are used. Haar feature detection is based on the convolutional kernel where each feature is a single value obtained by subtracting sum of pixels under white rectangle from sum of pixels under black rectangle. The cascade classifier training process for eye detection at Stage 0 is as shown in Fig 8.

2. Training Process

In our system, we have used an image of the gesture and generated more than 2700 positives out of it and trained the cascades for at least 10 stages which makes the detection process stringent. This haar cascade that we have generated is like a contour map of the gesture and thus it is free from the skin color or the tan this reduces the cost of detection to Zero. As there is no need of splurging money on Kinect or smart gloves and more. Also Indian Sign Language now has their own cascade classifiers that will help in the betterment of the system.

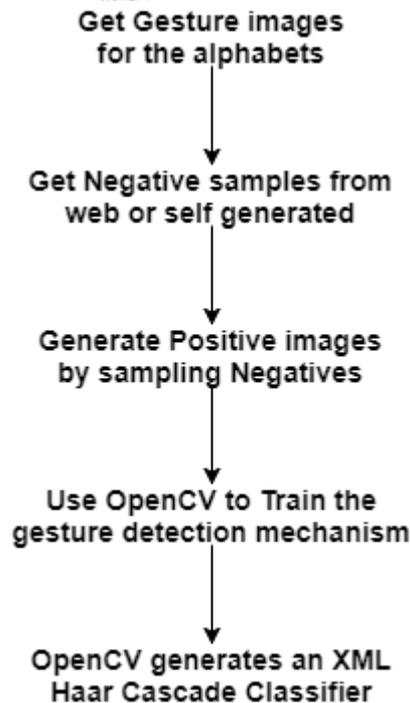


Fig 9: Haar Cascade Training Process

The above figure (Fig 9) shows how the cascade was created that will help in the detection process. First the gesture of the alphabet is shot using a high resolution camera and the background is removed such that only the gesture is kept in the image. The resolution is then adjusted for the size of the cascade, here we have used 300 x 300 pixels. OpenCV generates the cascade XML file that will help in the gesture detection. The training process requires a lot of computational time. For our system, we have trained each alphabet for a 70 x 70 cascade superimposed on 2700 images with standard X, Y and Z rotations of 0.5. This training process was carried out on an octa-core i7 machine with 8GB RAM on which it takes 14 hours each alphabet. The training process speed depends on CPU and RAM. On an intel i7 system with 24GB RAM, each alphabet takes around 7 hours. This processing is only a one time thing as once the cascade is generated, it does not requires re-processing it.

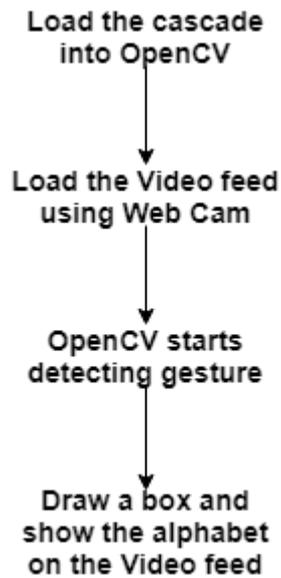


Fig 10: Gesture Detection

Figure 10 shows how OpenCV detects the gesture using the cascade that we have built. After the gesture gets detected, in order to show the user that it is detected, we enclose the gesture into a box and in that box, we write the corresponding english alphabet.

The training process is faster on a Linux machine as the number of background processes are low. We produced 2700 positive images from One positive image and then worked with the training process. Follow the directory structure as shown in Fig 11 for training your own Haar Cascade used for Gesture Detection.

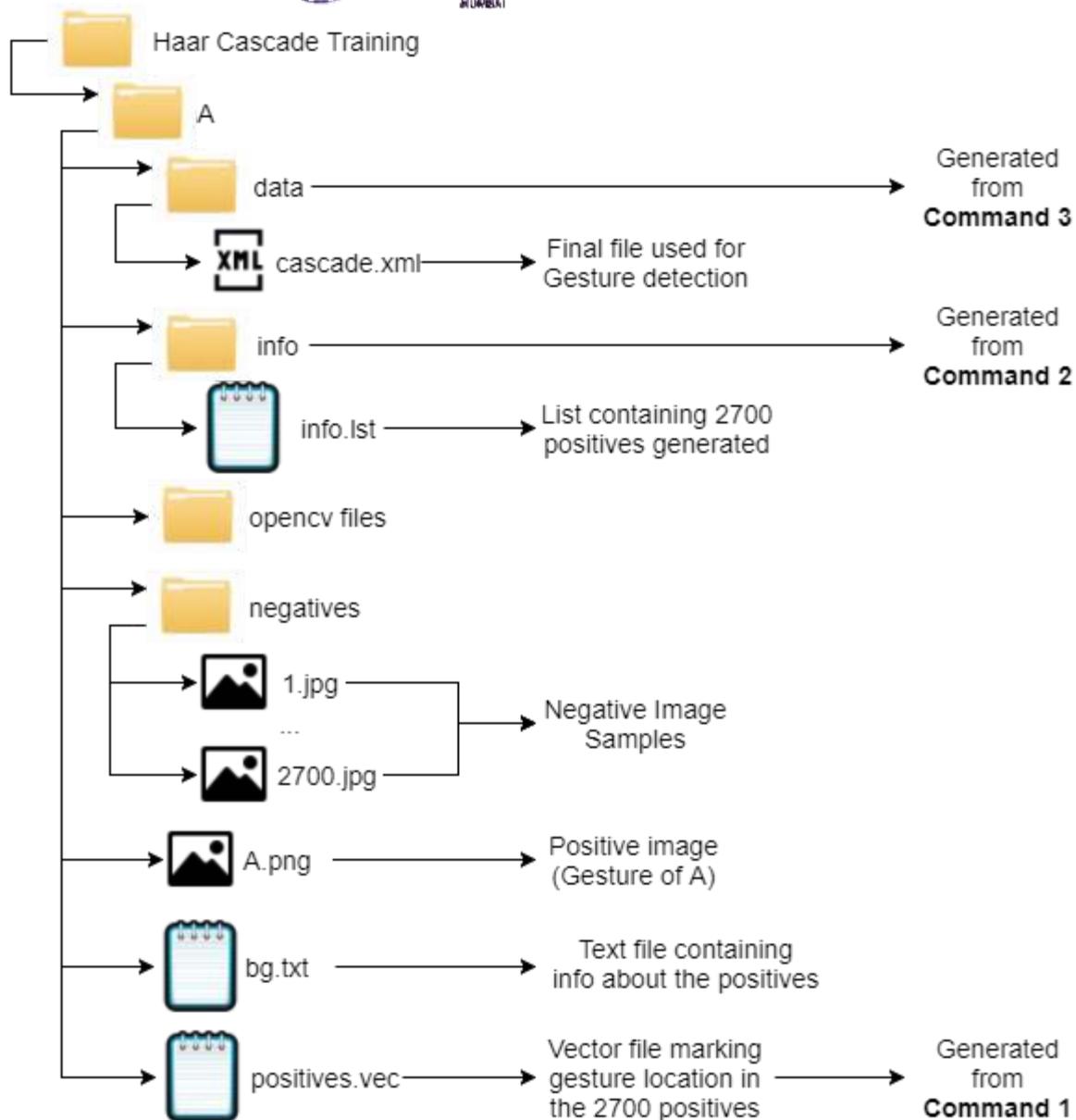


Fig 11: Directory Structure for Training Process

Download the files of OpenCV (Preferably from their Git for Latest Version). Fig 11 shows the directory structure for training process of A. It is same for all alphabets just the positive gesture (A.png) changes from alphabet to alphabet.

The Directory consists of OpenCV files, negative images in a separate directory, bg.txt and A.jpg, that is, the gesture image. After having this default directory structure, run these commands for starting with the training process.

- `1. opencv_createsamples -img A.png -bg bg.txt -info info/info.lst -pngoutput -maxxangle 0.5 -maxyangle 0.5 -num 2700`
- `2. opencv_createsamples -info info/info.lst -num 2700 -w 70 -h 70 -vec positives.vec`



```
3. opencv_traincascade -data data -vec positives.vec -bg bg.txt -numPos 2500  
-numNeg 1250 -numStages 15 -w 70 -h 70 -precalcValBufSize 16000  
-precalcIdxBufSize 4000.
```

These commands will start the training process for Alphabet A. The last command, is the one which actually starts with the training process. This gives the cascade.xml file which is imported in OpenCV for gesture detection.

The values precalcValBufSize and precalcIdxBufSize depends from system to system. Our system was Intel i7 Octa-core CPU with 24GB RAM. Check this value for the training process according to your RAM and CPU.

With this configuration, about 2.5 alphabets are finished in 24 hours.

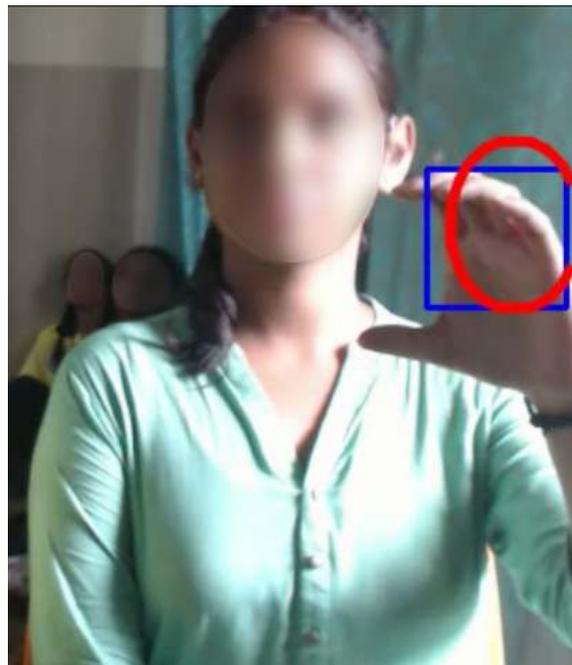


Fig 12: Gesture Detected

After we finish with the gesture training, import the 'cascade.xml' into the python code for gesture detection. The python code is:

```
import cv2  
import numpy as np  
  
# Get the cascade classifier  
C_cascade = cv2.CascadeClassifier('cascade.xml')  
cap = cv2.VideoCapture(0)  
  
while True:  
    ret, img = cap.read()  
    #flip video
```



```
img = cv2.flip(img, 1)
#converting to gray
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
# detect A
A = A_cascade.detectMultiScale(gray)

# To display A
for (x,y,w,h) in A:
    cv2.rectangle(img, (x, y), (x + w, y + h), (255, 0, 0), 2)
    font = cv2.FONT_HERSHEY_SIMPLEX
    cv2.putText(img,'C',(x,y+h), font, 4, (0,0,255), 3, cv2.LINE_AA)

# Display video & Exit procedure
cv2.imshow('img', img)
key = cv2.waitKey(1) & 0xFF
if key == 27:
    break

# Necessary Exit Procedure
cap.release()
cv2.destroyAllWindows()
```

This code will give the output as shown in Fig 12 when 'C' gesture is performed in front of the camera.



C. User Testing of the Application

Actual user testing of this application was carried out at a school that teaches Indian Sign Language for the Speech Impaired people, Sanskar Dham School, Goregaon, Mumbai. The actual user testing helped us in improving our system. We also came to know about the testing process and how it should be done. Actual user testing of any application is very important as it helps us to know about the bugs that appear during runtime, the logical errors that might have been overlooked during the implementation phase. It also helps us in getting to know more of the user requirements. User testing helps you understand how people use your product and for what purpose. Do they use it for the same purpose you had in mind when you designed it? Do they get maximum value out of it, and if not, why not? Even if they achieve their ultimate goal, are they happy or frustrated?

The testing process began with small instructional session about how to use the application and what it is meant for. The application was tested on various age groups males and females. Even the teachers were involved in the testing procedure as they can give valuable suggestions on how to test the application.



Fig 13: User Testing



The Figure 13 shows a few images captured during the user testing phase of our application for the 'Practice' and 'Test' modules.

The professors and the students were excited because now there was a proper computer based system that teaches Indian Sign Language as the Indian Sign Language lacks the applications like those of the American Sign Language [2][3]. The instructions provided in the app were easy and 80% of the students said that this app was sufficient enough to learn the basic fingerspelling and was a unique method to teach. There were some students whose parents didn't know the basic fingerspelling either! So in this case, this app provides an amazing means to learn on the go using Mobile devices.

There were a few bugs that were encountered while testing like:

1. *Multiple key press*

The windows application for the learn module requires key press to show the gestures. So when a person presses multiple keys, only the gesture for the last key pressed was displayed. This is a problem as many students would test the app by looking at the gesture for their names. This would cause a problem as it would show the gesture for the last character only.

2. *Low lighting and background noise*

The low lighting and the background noise affects the gesture detection mechanism for the practice and the test module. This causes a problem as the students would get confused as why is the background getting detected as the required gesture for the alphabet. Similarly, low lighting and dimly lit gestures will not be detected. This also causes confusion as the gesture would not get detected even though it is correct.

3. *Lack of UI for Practice and Test app*

The practice and the test modules were under development during the user testing. Although some alphabets were ready and could be detected easily. This makes the students worried about how to run the Practice and Test modules. During the time of user testing, we came to know that the UI plays a vital role.

4. *Installation time depending on the internet speed for Practice and Test app*

The practice and test modules require python 2.7 and python packages numpy and opencv. These additional softwares require additional 80MB of downloads which depends on the internet speed and the hardware of the computers. This dependency causes a problem as every system requires a unique download file depending on the hardware. Many places do not have a proper internet access.



This causes a problem for the installation of the software. But not for linux systems as we have developed an auto install script for the application where we just have to run this script on individual computers and the softwares get installed automatically. Although many schools do not have linux systems, but this script helps in the ease of installation process.

5. Students performing gestures incorrectly

The gesture detection mechanism for the practice and the test module works where the student performs gesture in front of the camera. This working is a basic mechanism as the gesture is meant to be performed such that the camera is seeing the entire gesture. To solve this problem, a wide angle camera is required.

The response from the user testing was good and because of user testing, we found a few drawbacks in our system.

1. Drawbacks of Our System

1. Overflow of Languages.

One of the common misconception of people is that sign language is same everywhere but actually it varies region to region and thus leading to a massive library. Hence, every Alphabet is not same everywhere.

2. Use of alphabets only when it is a pronoun.

The hearing and speech impaired students have their own means of communication for many big or small words, rather than using alphabets every time they use certain gestures to explain (words like cat, teacher etc.), But only in case of pronouns (like someone's name or some place's name) they use the alphabets, Thus not making the library limited only to alphabets.

3. Unavailability of Technology in Schools and Home.

Many such schools have very less amenities provided to the students and thus giving them less opportunities to learn about our application. The unavailability of Computers or Mobile Phones will also be a constraint.



X. References

1. http://docs.opencv.org/3.0-beta/doc/py_tutorials/py_objdetect/py_face_detection/py_face_detection.html#face-detection
2. <http://www.talkinghands.co.in>
3. <http://theaslapp.com>
4. <https://www.microsoft.com/en-us/research/blog/kinect-sign-language-translation-part-1/>
5. <https://www.quora.com/What-is-the-major-problem-faced-by-deaf-people-from-the-society>
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8. <https://github.com/changangela/sign-language-interpretation-glove>
9. <https://www.blendswap.com/blends/view/66039>

SKANI101x Course Team



Course Instructors



Sameer Sahasrabudhe

He works as Senior Project Research Scientist, at the Dept. of Computer Science and Engineering, IIT Bombay. He is a researcher in the area of visual communication for eLearning. He is a graduate in fine arts and holds post graduate diplomas in animation film making and distance education. He is a professional animator, and has bagged awards at national and international film festivals.
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Sneha Sanglikar

She is a fine arts graduate from Sir J. J. School also a trained art teacher. She has experience in Blender and has created 3D models of lab and eLearning animation for various courses Bombay. She has seven years of work experience in the field of animation and content creation. She has created Blender tutorials for the Spoken Tutorial project Bombay.
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Nitin Ayer

He is from the computer science background. He has a lot of experience in various programming languages. He has been working on Blender for the past 7 years. He has created 3D models of lab equipment, eLearning animations and interactive simulations for various courses at IIT Bombay. He is the lead UI developer for the IITBombayX platform and other websites. He has conducted several Blender training workshops. He is a co-author of 2 papers on Blender animations at T4E conferences (2013 and 2014).
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Kaumudi Sahasrabudhe

Kaumudi Sahasrabudhe is a Bachelor of Fine Arts from Chittrakala Mahavidyalaya, Nagpur, and completed a Diploma in Animation Film Making, ZICA Studio Hyderabad. She is a lead animator for India's animation feature film: Bhagmati. She has over 10 years of experience as an illustrator, designer and animator. Her animation films have been screened at various international film festivals. She has bagged the Best animation short film at FICCI FRAMES (2009) and UNICEF Laadli (2009).
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A third year B.E (Computer Science and Engineering) student from Loyola-Icam College of Engineering and Technology, Chennai. He is a 2D and 3D artist who enjoys making 2D/3D assets for games, visual applications, short animated films. He is currently working with an indie game studio called Dudenstein as the artist.
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Tejas Nanaware

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Bhairavnath Lahotkar

He has a Fine Art Degree from Directorate of Maharashtra, and a post graduated diploma in multimedia content creation, interactive app development and web page designing. He has been working in IIT Bombay as a Sr. Web, Graphic, Animation designer since the last 8 years.
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Video Support Team



(Back row from left to right) Sajjan Dixit, Prakash Jadiyar, Shekhar Paudel, Kailash Kadu, Deepak Jangir, Krishna Bhandare.
(Front row from left to right) Udaya Chadrika, Vivek Kanadi, Sandip Tirmare, Pradip Patil, Sushant Raktade, Shekahr Ovhal, Santosh
Additional video support has been provided by E-Studio team, Dept. of CSE, IIT Bombay.

Content Management Team



(Back row from left to right) Sachin Shirsat, Hitesh Murkute, Jaiprakash Yadav, Shashikant Bahulkar.

(Front row from left to right) Urmila Deshmukh, Varsha Adagale, Kalpana Kannan, Gayathri Thakoor, Sangeeta Gaikwad, Naziya Kali

The Content team has been responsible for managing the course content which includes syncing, editing, reviewing and uploading the content on the :

System Administrators



(From left to right) Saurabh Vimal, Abhilash K. S., Swati Patil, Manju Ramesh

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IITBombayX offers interactive online classes and MOOCs. Subjects from multiple disciplines are presently offered, as can be seen in the list of courses. This list will expand later. IITBombayX is a non-profit online platform created with funding from National Mission on Education through Information and Communication Technology (NME-ICT), Ministry of Human Resource Development (MHRD), Government of India (GoI).

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Dr. Deepak B. Phatak
Professor



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IIT Bombay

17th July, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. TEJAS NANAWARE**, B.E. (Computer Engineering) student from Atharva College of Engineering, Mumbai, has undertaken the project work entitled: **Gesture based App for sign language** under the supervision of Prof. Deepak B. Phatak, Department of Computer Science & Engineering, Indian Institute of Technology Bombay. During the period from 05th June, 2017 to 17th July, 2017 and has successfully completed the same. This summer internship was supported by project under the National Mission on Education through ICT (NME-ICT).

Date of issue: 17th July, 2017

Place: **CSE Department, IIT Bombay.**

(Prof. Deepak B. Phatak)

प्रा. दीपक भा. फाटक/Prof. Deepak B. Phatak
प्राध्यापक
Professor
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17th July, 2017

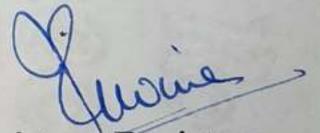
TO WHOMSOEVER IT MAY CONCERN

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Date of issue: 17th July, 2017

Place: **IIT Bombay.**




Assistant Registrar
(Academic)



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Date: August 28, 2017

To Whom It May Concern

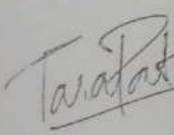
Dear Sir/Madam,

We writing this letter to confirm that **Mr. Tushar A. Kamble** is interned by our company, **Tap Cube Studios, LLP**, for a position of **Game Developer**. He will be starting his internship from September 01, 2017, continuing for one (1) month(s) and can be extended based on his performance.

We request you to grant him permission to intern with us.

Also, we would like to request you to overlook his attendance for that period.

Yours faithfully,




Signatory Authority



सी.एस.आई.आर.-केन्द्रीय औषधि अनुसंधान संस्थान, लखनऊ
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
सेक्टर 10, जानकीपुरम विस्तार, सीतापुर रोड, लखनऊ - 226 031 (भारत)
CSIR - Central Drug Research Institute
(Council of Scientific & Industrial Research)
Sector 10, Janakipuram Extension, Sitapur Road, Lucknow - 226 031 (India)



July 26th 2017

Certificate

To whomsoever it may concern:



Ali
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Mr. Urvesh Rathod completed six months data science internship through long-distance work from home model with my group. I wish him all the best. He has visualized data using python and has learned to utilize Python for doing research in the field of data science. He has also collected data for several projects and has shown very good ethics. I wish him all the best in future endeavors.

Best wishes,

Sukant Khurana, Ph.D.

Scientist Fellow

CSIR-CDRI

★ CERTIFICATE OF INTERNSHIP ★

2017

THIS CERTIFICATE IS PRESENTED TO



[Signature]

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VAIBHAV PATIL

THIS IS TO CERTIFY THAT MR. VAIBHAV PATIL A STUDENT OF ATHARVA COLLEGE OF ENGINEERING, MUMBAI HAS UNDERGONE HIS INTERNSHIP WITH PARAMHANS INFOTEC LTD, SURAT FROM JUNE 1, 2017 TO AUGUST 30, 2017.

HOWEVER, THE INTERNSHIP WAS HELD REMOTELY.

DURING THE INTERNSHIP HE WORKED ON DIFFERENT MODULES OF COMPANY PROJECTS AND DEMONSTRATED GOOD SKILLS IN WORDPRESS, MAGENTO, PHP AND ITS FRAMEWORK CODE IGNITER.

HE WAS DILIGENT AND ENTHUSIASTIC WITH ZEAL TO DO HIS BEST ON HIS PROJECT. HE ALSO ASSISTED IN TECHNICAL DOCUMENTATION AND MODIFICATION.



PARAMHANS
Infotec Ltd



RAJAN NANDWANI

Director

DATE: 2017/08/30

CIN:U72900GJ2016PLC094859



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has successfully undergone Practical Training Course
for one week w.e.f. 28.08.2017 to 02.09.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai


P.M. MEHTA
ASSISTANT ENGINEER




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This is to certify that *Kum. Nikita Patkar*, student of Atharv College, Malad, studying III year Electronics Engineering, has successfully undergone Practical Training Course for one week w.e.f. 28.08.2017 to 02.09.2017 at Vividh Bharati Service, All India Radio, Borivali, Mumbai


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This is to certify that *Kum. Shradha Hegde* student of
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has successfully undergone Practical Training Course
for one week w.e.f. 28.08.2017 to 02.09.2017 at
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-- Offer Letter --

Date: - 28th December 2017

Meghana Vengurlekar
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Dear Meghana,

I am delighted & excited to welcome you to **Dream Hearts Foundation** as a **Content Writing Intern**. At Dream Hearts Foundation, we believe that our team is our biggest strength and we take pride in hiring **ONLY** the best and the brightest. We are confident that you would play a significant role in the overall success of the venture and wish you the most enjoyable, learning packed and truly meaningful internship experience with us.

Your appointment will be governed by the terms and conditions presented in the **Annexure A**.

We look forward to you joining us. Please do not hesitate to contact us for any information you may need. Also, please sign the duplicate of this offer as your acceptance and forward the same to us.

Congratulations!

Mr. Abhijit Padvekar
Founder & CEO

✉ info@drmhrtts.cf

🌐 <https://drmhrttsfoundation.wixsite.com/dreamheartsworld>

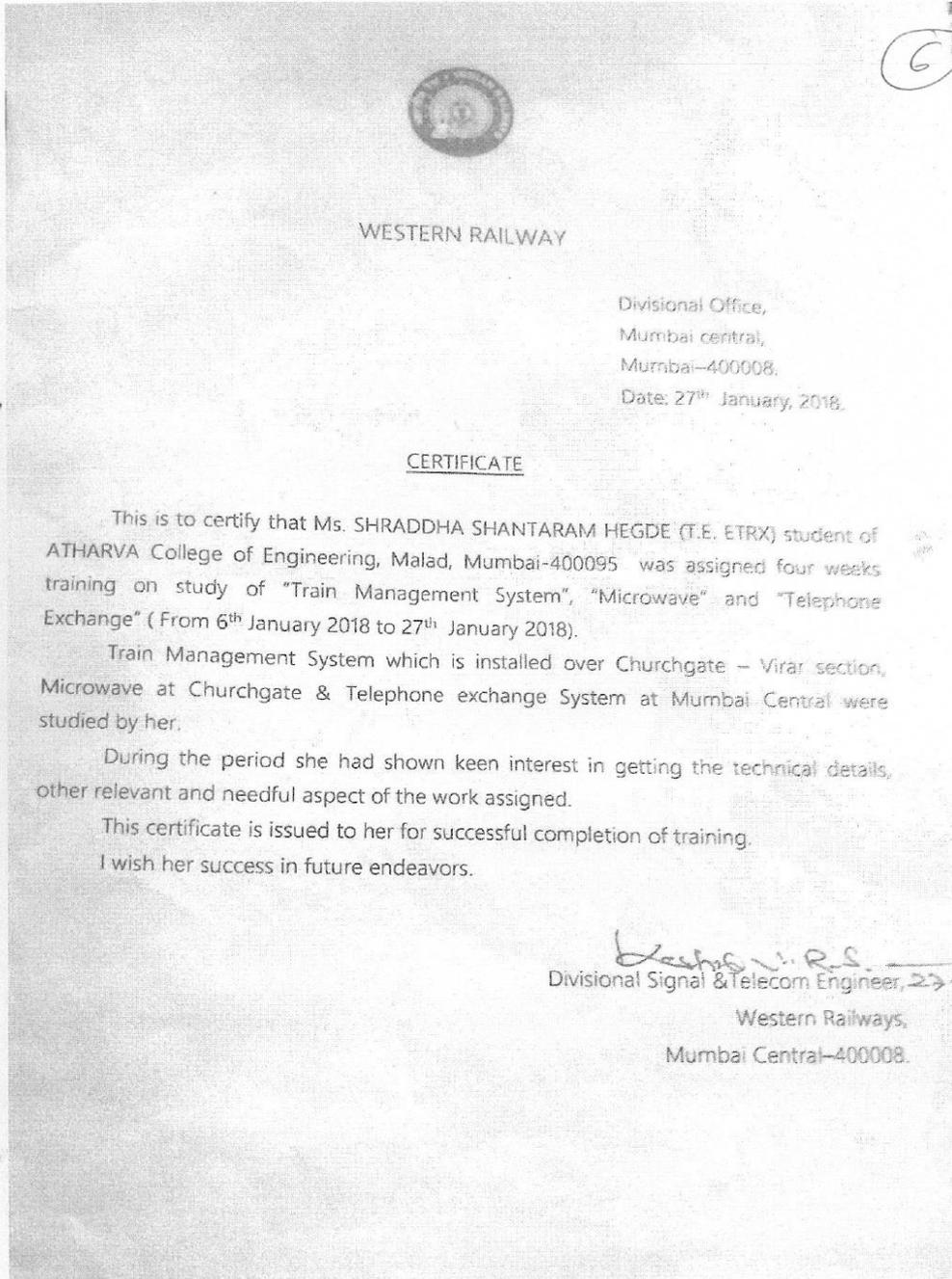


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Date of Leaving : January 31, 2018
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Powai
Project Title : Motor Comprehensive Relay

For LARSEN & TOUBRO LIMITED

Deepak Pradhan
Dy. General Manager - HR
Electrical & Automation

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January 31, 2018

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Date of Leaving : January 31, 2018
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Project Title : Motor Comprehensive Relay

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vinlote@vinatiorganics.com.



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Prathamesh Bharat Khedekar**, student of Second Year B. E. Electrical in Atharva College of Engineering, Mumbai has undergone Industrial Training in Electrical Dept. in our organization during the period from 12.06.2018 to 02.07.2018 as a part of college syllabus. During the training, we found him sincere, hardworking and desire to learn

We wish him Good Luck in his future endeavor.

For VINATI ORGANICS LTD.


RAJEEV JAMBHEKAR
Asst. Gen. Manager – HR

Date : 02.07.2018



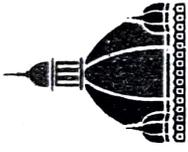

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Akash Dichoikar

from Atharva College of Engineering, Mumbai

has successfully completed Industrial Exposure Training from

15.06.2018 to the 15.07.2018 with an attendance of 100 %,

in Engineering Department departments

While on training, the performance was found to be good

We wish you the very best in your future endeavours



PRINCIPAL
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[Signature]

Adya Khandige
Manager

Learning & Development

[Signature]

Taljinder Singh

Area Director - Mumbai Hotels &
General Manager - The Taj Mahal Palace



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Electrical (General Service) Mumbai Division

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Work Centre: Thane

Certificate

This is to certify that Mr./Miss Sanchita Suryakant Sutar, a student of Third Year (Electrical), Atharva College Of Engineering, Malad, has undergone Internship Program at Central Railway, Thane from 20/12/2017 to 26/12/2017.

He/She has successfully completed his/her Project work on "Study of electrical devices & Railway infrastructure at Central Railway, Thane Region" in the discipline of Electrical department under the guidance of Mr. Shambhu Kumar, SSE(EM) and Rajendra R. Bandiwadekar, SSE(EM).

During the Internship, he/she took keen interest in the assigned work. We wish him/her all success in his/her academic endeavours and life.



Date: 06/01/2018

Place: Thane

Shambhu Kumar

Rajendra R. Bandiwadekar

: Shambhu Kumar

: Surendra Pramal

PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Co-ordinator (S) : वि. / अनु.)
मध्य रेल, मुंबई

SECTION ENGINEER (ELECT./MAINT.)
CENTRAL RLY. THANE

Divisional Electrical Engineer (SSE) CSTM
मध्य रेल, मुंबई

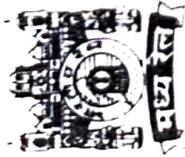
महाराज टर्मिनस,
शिवजी महाराज टर्मिनस,
Div. Thane (SSE)

Central Railway, Thane

Shri. Shivaji Maharaj Terminus

Central Railway

Electrical (General Service) Mumbai Division



Certificate No. TNA0004/2018

Work Centre: Thane

Certificate

This is to certify that Mr./Miss *Urval Paresh Mistry*, a student of Third Year (Electrical), Atharva College Of Engineering, Malad, has undergone Internship Program at Central Railway, Thane from 20/12/2017 to 26/12/2017.

He/She has successfully completed his/her Project work on "Study of electrical devices & Railway infrastructure at Central Railway, Thane Region" in the discipline of Electrical department under the guidance of Mr. Shambhu Kumar, SSE(EM) and Rajendra R. Bandiwadekar, SSE(EM).

During the Internship, he/she took keen interest in the assigned work. We wish him/her all success in his/her academic endeavours and life.



Date: 06/01/2018

Place: Thane

Shambhu Kumar

Rajendra R. Bandiwadekar

: *Shambhu Kumar*

: *Surendra Pramal*

Surendra Pramal

Co-ordinating Officer (S) : *शुभम कुमार (वि./अनु.)*

सहायक अभियंता (वि. / अनु.)

SR. SECT. ENGINEER (ELECT./MAINT.)
CENTRAL RLY. THANE

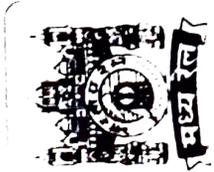
Divisional Electrical Engineer (G) CSTM

मंडल विद्युत इंजिनियर (सं.)

मध्य रेल, मुंबई, छत्रपति शिवाजी महाराज टर्मिनस,
Divl. Elec. Engineer (G.)

Central Railway, Mumbai.

Chhatrapati Shivaji Maharaj Terminus



Central Railway
Electrical (General Service) Mumbai Division

Certificate No. TNA0002/2018

Work Centre: Thane

Certificate

This is to certify that Mr./Miss Alok Kumar Vincy Kumar Shukla, a student of Third Year (Electrical), Atharva College Of Engineering, Malad, has undergone Internship Program at Central Railway, Thane from 20/12/2017 to 26/12/2017.

He/She has successfully completed his/her Project work on "Study of electrical devices & Railway infrastructure at Central Railway, Thane Region" in the discipline of Electrical department under the guidance of Mr. Shambhu Kumar, SSE(EM) and Rajendra R. Bandiwadekar, SSE(EM).

During the Internship, he/she took keen interest in the assigned work. We wish him/her all success in his/her academic endeavours and life.



Date: 06/01/2018

Place: Thane

Shambhu Kumar

Rajendra R. Bandiwadekar

Surendra Pramal

Co-ordinator(s)

मंडल विद्युत इंजिनियर (सी.)
मध्य रेल, मुंबई, छत्रपति शिवाजी महाराज टर्मिनस,
Divl. Elec. Engineer (G.)
Central Railway, Mumbai.

Divisional Electrical Engineer (G) CSTM

मंडल विद्युत इंजिनियर (सी.)
मध्य रेल, मुंबई, छत्रपति शिवाजी महाराज टर्मिनस,
Divl. Elec. Engineer (G.)
Central Railway, Mumbai.

PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



Central Railway

Electrical (General Service) Mumbai Division

Certificate No. TNA0001/2018

Work Centre: Thane

Certificate

This is to certify that Mr./Miss Pooja Anilkumar Chaurasiya, a student of Third Year (Electrical), Atharva College Of Engineering, Malad, has undergone Internship Program at Central Railway, Thane from 20/12/2017 to 26/12/2017.

He/She has successfully completed his/her Project work on "Study of electrical devices & Railway infrastructure at Central Railway, Thane Region" in the discipline of Electrical department under the guidance of Mr. Shambhu Kumar, SSE(EM) and Rajendra R. Bandiwadekar, SSE(EM).

During the Internship, he/she took keen interest in the assigned work. We wish him/her all success in his/her academic endeavors and life.

Date: 06/01/2018

Place: Thane



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Shambhu Kumar

: Shumar

Rajendra R. Bandiwadekar

: [Signature]

Surendra Pramal

: [Signature]

Co-ordinator(s) : [Signature] (वि. /अनु.)
महल विद्युत इन्जिनियर (सी.)
मध्य रेल, मुंबई, छत्रपति शिवाजी महाराज टर्मिनस,
महल विद्युत इन्जिनियर (सी.)
Div. Elec. Engineer (G.)
Central Railway, Mumbai.

Divisional Electrical Engineer (G.) CSTM
महल विद्युत इन्जिनियर (सी.)
मध्य रेल, मुंबई, छत्रपति शिवाजी महाराज टर्मिनस,
Div. Elec. Engineer (G.)
Central Railway, Mumbai.

**OFFICE OF
Sr.Div.Elect.Engineer
(Electrical Coaching)**



**Western Railway
Divisional Office,
Mumbai Central**

No. EL197/134

Date: 08/01/2018

**The Principal
Atharva College Of Engineering
Malad (West)
Mumbai - 400095**

SUB - Internship to Engineering Students

**Ref : Principal, Atharva College of Engineering, Malad Mumbai letter no.
ACE/REF/TNP/398/17 Dt. 23/12/2017**

It is hereby certified Mr. Aniket Patil of Atharva College of Engineering, Malad Mumbai has undergone internship in Electrical Coaching Department, of Western Railway, Mumbai central Division, for the period from 26/12/2017 to 08/01/2018.

He was directed to move through the Electrical Coaching Depot at Mumbai Central and observe the maintenance activities of various electrical equipments provided in AC coaches. No formal Training or coaching of any kind was imparted to him.

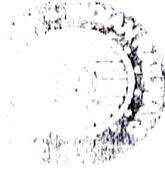

08.01.18

**(Rajesh Singh)
DEE/Coaching/BCT**

**प्रमुख वि-के इंजीनियर (सामान्य)
पश्चिम रेलवे बम्बई केंद्र,
Divl. Electrical Engg. (Gen.)
W. Ry. Bombay Central**




**PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI**



WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai - 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,
Atharva College of Engineering,
Marve Road Malad West,
Mumbai - 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOI- IV Dt:- 21/11/2017

Miss. Sonali Kishor Dole Roll No :-14 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

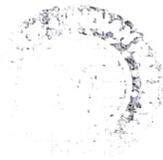
- | | |
|---------------------|-------------------------------|
| 1. Alternator | 6. Power Maintenance |
| 2. RRU & ERRU | 7. Motor |
| 3. Winding | 8. Elect. Control Panel |
| 4. Battery | 9. Elect. Switch Gears |
| 5. Internal Fitting | 10 Coach Air-condition system |

She has submitted her training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


For Chief Workshop Manager
W.Ply. Carriage Workshop,
Lower Parel, Mumbai-13.
Lower Electrical Engineer (W)
कार्यालय डिब्बा मरम्मत कारखाना
N.W/WR/ Lower Parel, Mumbai-13
मेलबो, लोअर पारेल, मुंबई



WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,

Atharva College of Engineering,
Marve Road Malad West,
Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L.No.E1131/CW/1/ VOI- IV Dt:- 21/11/2017

Miss. Poonam Rajendra Bhawe Roll No :- 08 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

- | | |
|---------------------|-------------------------------|
| 1. Alternator | 6. Power Maintenance |
| 2. RRU & ERRU | 7. Motor |
| 3. Winding | 8. Elect. Control Panel |
| 4. Battery | 9. Elect. Switch Gears |
| 5. Internal Fitting | 10 Coach Air-condition system |

She has submitted her training report to this office.



P. B. Joshi
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

AK 21/11/18
पदवी विभागाचे Chief Workshop Manager
Div. Electrical Workshop,
Lower Parel, Mumbai-13.
N M Joshi Marg, Lower Parel,
Mumbai - 400013



पश्चिम रेलवे
मुंबई

WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,
Atharva College of Engineering,
Marve Road Malad West,
Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOI- IV Dt:- 21/11/2017

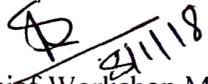
Miss. Twinkle Akhilesh Mishra Roll No :- 36 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

1. Alternator
2. RRU & ERRU
3. Winding
4. Battery
5. Internal Fitting
6. Power Maintenance
7. Motor
8. Elect. Control Panel
9. Elect. Switch Gears
- 10 Coach Air-condition system

She has submitted her training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


For Chief Workshop Manager
DW. Electrical Workshop
सवा लोअर पारेल कारखाना
CWM/WR/ Lower Parel, Mumbai-13.
पेन्वे. लोअर पारेल, मुंबई-१३



पश्चिमी रेलवे
Western Railway

WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,

The Principal,

Atharva College of Engineering,

Marve Road Malad West,

Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOI- IV Dt:- 21/11/2017

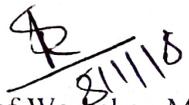
Miss. Ranna Sanjay Sheth Roll No :- 64 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

- | | |
|---------------------|-------------------------------|
| 1. Alternator | 6. Power Maintenance |
| 2. RRU & ERRU | 7. Motor |
| 3. Winding | 8. Elect. Control Panel |
| 4. Battery | 9. Elect. Switch Gears |
| 5. Internal Fitting | 10 Coach Air-condition system |

She has submitted her training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


For Chief Workshop Manager
W. Rly. Carriage Workshop (W)
Div. Electrical Engineer (W)
Lower Parel, Mumbai-13
पश्चिमी रेलवे कारखाना
ERW/WF/ Lower Parel, Mumbai-13
पेलवे, लोअर परेल, मुंबई-१३



Western Railway

WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,
Atharva College of Engineering,
Marve Road Malad West,
Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOI- IV Dt:- 21/11/2017

Miss. Vaishnavi Trilok Hejmady Roll No :-22 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

1. Alternator
2. RRU & ERRU
3. Winding
4. Battery
5. Internal Fitting
6. Power Maintenance
7. Motor
8. Elect. Control Panel
9. Elect. Switch Gears
- 10 Coach Air-condition system

She has submitted her training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


For Chief Workshop Manager
Carriage Repair Workshop,
Lower Parel, Mumbai-13
(M) Electrical Engineer (W)



भारतीय रेलवे
Indian Railway

WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,
Atharva College of Engineering,
Marve Road Malad West,
Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOI- IV Dt:- 21/11/2017

Miss. Ankita Narayan Mote Roll No :- 38 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

- | | |
|---------------------|-------------------------------|
| 1. Alternator | 6. Power Maintenance |
| 2. RRU & ERRU | 7. Motor |
| 3. Winding | 8. Elect. Control Panel |
| 4. Battery | 9. Elect. Switch Gears |
| 5. Internal Fitting | 10 Coach Air-condition system |

She has submitted her training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


For Chief Workshop Manager
W.Rly. Carriage Workshop,
Div. Electrical Engineering,
Lower Parel, Mumbai-13.
CRW/WR/ Lower Parel

वेन्वे, लोअर परेल, मुंबई - ४०० ०१३



भारतीय रेलवे
Indian Railway

WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,
Atharva College of Engineering,
Marve Road Malad West,
Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOL- IV Dt:- 21/11/2017

Miss. Dipti Dattaram Nagare Roll No :- 43 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

- | | |
|---------------------|-------------------------------|
| 1. Alternator | 6. Power Maintenance |
| 2. RRU & ERRU | 7. Motor |
| 3. Winding | 8. Elect. Control Panel |
| 4. Battery | 9. Elect. Switch Gears |
| 5. Internal Fitting | 10 Coach Air-condition system |

She has submitted her training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


For Chief Workshop Manager,
W.Rly. Carriage Workshop,
Lower Parel, Mumbai-13.
Principal Engineer,
Lower Parel, Mumbai-13.
मलव, लोअर परेल, मुंबई-१३



पश्चिम रेलवे
Western Railway

WESTERN RAILWAY

Office of
The Chief Workshop Manager,
Carriage Repair Workshop,
N M Joshi Marg, Lower Parel,
Mumbai – 400013
Date: 08/01/2018

NO. E 1131/BTC (Elect)/27/2018

To,
The Principal,
Atharva College of Engineering,
Marve Road Malad West,
Mumbai – 400 095

Sub: Completion of In-plant training.

Ref: CWM L. No.E1131/CW/1/ VOL- IV Dt:- 21/11/2017

Mr. Bhushan Shridhar Pangam Roll No :- 46 (Electrical) Student of your Institute has successfully completed the In-plant Training from 15/12/2017 to 08/01/2018 in this workshop imparted on following topic:

1. Alternator
2. RRU & ERRU
3. Winding
4. Battery
5. Internal Fitting
6. Power Maintenance
7. Motor
8. Elect. Control Panel
9. Elect. Switch Gears
- 10 Coach Air-condition system

He has submitted his training report to this office.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


8/1/18
For Chief Workshop Manager,
WRly Carriage Workshop
Div. Electrical Engineer (W)
Lower Parel, Mumbai-13
पश्चिम रेलवे कारखाना
CRW/WR/ Lower Parel, Mumbai-13
नेल्वे, लोअर परेल, मुंबई-१३

ELECTRICAL TRAINING CENTRE

EMU CARSHED, VIRAR



पश्चिम रेलवे
Western Railway

Certificate

Certified that Mr. NIVED HARESH BHOIR

Studying B.E./B.TECH/DIPLOMA in ELECTRICAL ENGINEERING

Engineering in Sem V of ATHARVA COLLEGE OF

ENGINEERING has successfully completed Industrial Training

from 18 Dec 2017 to 6th Jan 2018 at EMU CARSHED VIRAR, W. R.

Date : 6th Jan 2018



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


PRINCIPAL
ELECTRICAL TRAINING CENTRE
EMU CARSHED, VIRAR
Principal
Electrical Training Centre
Virar 40¹ 303.

ELECTRICAL TRAINING CENTRE

EMU CARSHED, VIRAR



पश्चिम रेलवे
Western Railway

Certificate

Certified that Mr. VEDANT GIRISH DALVI

Studying B.E./B.TECH/DIPLOMA in ELECTRICAL

Engineering in Sem V of ATHARVA COLLEGE OF

ENGINEERING has successfully completed Industrial Training

from 18 Dec 2017 to 6th Jan 2018 at EMU CARSHED VIRAR, W. R.

Date : 6th Jan 2018




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


PRINCIPAL
ELECTRICAL TRAINING CENTRE
EMU CARSHED, VIRAR
पश्चिम रेलवे
विरार 401303
Principal
Electrical Training Centre
Virar 40th 303

मध्य रेल

वरिष्ठ मंडल विद्युत अभियंता (कचस्टॉक) कार्यालय

विद्युत लोको शेड, कल्याण - 421 301

फोन/फैक्स :- 0251 - 2361293/2363563



Central Railway

Office of Sr. DEE (TRS)

Electric Loco Shed, Kalyan - 421 301.

Email :- srdeetrskyncrly@gmail.com

No.ELS.KYN.BTC

Dt. 22-01-2018

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Miss SANCHITA SUTAR a Third Year Electrical Engineering student of Atharva college of Engineering Malad Mumbai has reported this office from 27-12-2017 to 05-01-2018

The student has been imparted training on maintenance of Electric Locomotives successfully.

The above student is relieved after training on 05-01-2018



Hemant
22/01/18
(Hemant Jindal)

Divisional Electrical Engineer
(Traction Rolling Stock Kalyan)



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

मध्य रेल

वरिष्ठ मंडल विद्युत अभियंता (कचस्टॉक) कार्यालय

विद्युत लोको शेड, कल्याण-421 301

फोन/फैक्स :- 0251 - 2361293/2363563



Central Railway

Office of Sr. DEE (TRS)

Electric Loco Shed, Kalyan - 421 301.

Email :- srdeetrskyncrly@gmail.com

No.ELS.KYN.BTC

Dt. 22-01-2018

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Miss POOJA CHAURASIYA** a **Third Year Electrical Engineering student of Atharva college of Engineering Malad Mumbai** has reported this office from **27-12-2017 to 05-01-2018**

The student has been imparted training on maintenance of Electric Locomotives successfully.

The above student is relieved after training on **05-01-2018**



Hemant Jindal
22/01/18
(Hemant Jindal)

**Divisional Electrical Engineer
(Traction Rolling Stock Kalyan)**



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

13 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Akshay Ingle undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.



Natasha Alvares

Sr. Manager (HR)



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

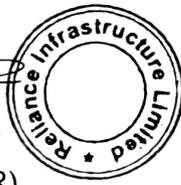
5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Ninad Shirgaonkar had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares
Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

5 January 2018

TO WHOMSEVER IT MAY CONCERNED

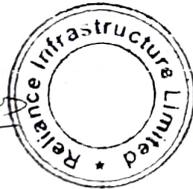
This is certified that Mr Nishant Raul had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.



Natasha Alvares

Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

RELIANCE

**Reliance Energy
Reliance Infrastructure Limited**
369 D, S. V. Road
Kandivali (West)
Mumbai 400 067.

Tel: +91 22 3009 6999
Fax: +91 22 3009 4580
www.relianceenergy.in

CIN: L99999MH1929PLC001530

5 January 2018

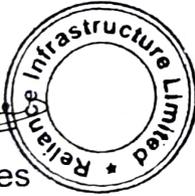
TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Parikshit Rumale had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares

Sr. Manager (HR)



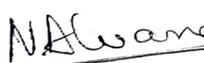

PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

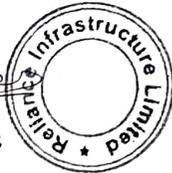
5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Dikshant Ramteke had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares
Sr. Manager (HR)



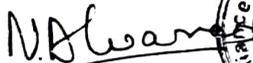

PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

11 January 2018

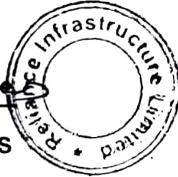
TO WHOMSEVER IT MAY CONCERNED

This is certified that Miss Prachi Khamitkar had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found her sincere, hard working, having good ability to understand the subject. She is also enthusiasm and attentive.


Natasha Alvares

Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO
Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref:AddlEE/VSI/220kV/2017-18/HR/N0- 08

Date:

2 JAN 2018

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002516** dtd.14.12.2017, this is to certify that, **Mr. Omkar Bhagavan Ambetkar** student of Atharva College of Engineering Malad, has completed 15 days training w.e.f. 18.12.2017 to 02.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.

Shambharkar

ADDL EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



Ali
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

11 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Miss Namita Gawas had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found her sincere, hard working, having good ability to understand the subject. She is also enthusiasm and attentive.



Natasha Alvares

Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO

Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At.& Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref:AddlEE/VSI/220kV/2017-18/HR/N0- 06

Date:

E 2 JAN 2018

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002516** dtd.14.12.2017, this is to certify that, **Mr. Sagar Sadashiv Cherphale** student of Atharva College of Engineering Malad, has completed 15 days training w.e.f. 18.12.2017 to 02.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


ADDL EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



MAHATRANSCO
Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref: AddIEE/VSI/220kV/2017-18/HR/N0- 10

Date:

22 JAN 2018

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002516** dtd.14.12.2017, this is to certify that, **Mr. Ajinkya Nagnath Trimukhe** student of Atharva College of Engineering Malad, has completed 15 days training w.e.f. 18.12.2017 to 02.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


ADOL EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.

Ref:AddIEE/VSI/220kV/2017-18/HR/N0- 05

Date:

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002638** dtd.27.12.2017, this is to certify that, **Mr. Sujay Paul** student of Atharva College of Engineering Malad, has completed 14 days training w.e.f. 28.12.2017 to 10.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



ADDL. EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



MAHATRANSCO
Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref: AddlEE/ VSI/220kV/2017-18/HR/N0- 04

Date:

10 JAN 2018

Certificate

In pursuance of the letter No. CE/EHV/PCO&M/ZONE/VSH/HR/002638 dtd.27.12.2017, this is to certify that, **Mr. Lerson D'souza** student of Atharva College of Engineering Malad, has completed 14 days training w.e.f. 28.12.2017 to 10.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.

Shambharkar

ADDL. EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO

Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref: AddIEE/VSI/220kV/2017-18/HR/N0- 01

Date:

10 JAN 2018

Certificate

In pursuance of the letter No. CE/EHV/PCO&M/ZONE/VSH/HR/002638 dtd.27.12.2017, this is to certify that, **Mr. Neelay Sinha** student of Atharva College of Engineering Malad, has completed 14 days training w.e.f. 28.12.2017 to 10.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.

Shambharkar
ADDL EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO
Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref:AddIEE/VTI/220kV/2017-18/HR/N0- 03

Date:

10 JAN 2018

Certificate

In pursuance of the letter No. CE/EHV/PCO&M/ZONE/VSH/HR/002638 dtd.27.12.2017, this is to certify that, **Mr. Saiesh Singh Hansbhaday** student of Atharva College of Engineering Malad, has completed 14 days training w.e.f. 28.12.2017 to 10.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.

Shambharkar
ADDITIONAL EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO

Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref:AddIEE/VSI/220kV/2017-18/HR/N0- 06

Date:

10 JAN 2018

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002638** dtd.27.12.2017, this is to certify that, **Mr. Rushikesh Sonawane** student of Atharva College of Engineering Malad, has completed 14 days training w.e.f. 28.12.2017 to 10.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.

Shambhakar

ADDL. EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO

Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref:AddIEE/VSI/220kV/2017-18/HR/N0- 02

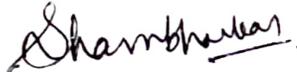
Date:

10 JAN 2018

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002638** dtd.27.12.2017, this is to certify that, **Mr. Swapnil Acharekar** student of Atharva College of Engineering Malad, has completed 14 days training w.e.f. 28.12.2017 to 10.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.


ADDL.EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L.,Vasai.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Office of Additional Exec. Engineer,
220/22 kV Colourchem substation,
Behind Balkum fire brigade,
At post Balkum, Thane(W)-400607
Tel no-022-25367442
Mob no:9769226104
Email ID:dyeecolourchem@gmail.com
dyeeh309@mahatransco.in

AD. E.E./EHV/COLOURCHEM/TECH/ 06

DATE: 10/01/2018

To,
The Principal,
Atharva Collage Of Engineering,
Malad (W), Mumbai -400095.

This is to certify that, The following student of Atharva Collage Of Engineering, Malad (W) pursuing Third Year in Electrical Engineering has undergone industrial training at 220 KV Colourchem substation , Thane under EHV O&M Dn. Bhandup. from 27th December 2017 to 10th January 2018.

Sr. No.	Name of Student	Roll No.
1	Miss. Ashwini A. Khedekar	31 → 30
2	Mr. Dhiraj P. Ingale	23
3	Mr. Nilesh D. Patil	51 → 48
4	Miss. Sanskruti S. Belnekar	04
5	Miss. Ekta R. Kamble	29 → 27

Their conduct was good during the entire training.



**Add. Executive Engineer,
220 KV Colourchem Substations.**




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



MAHATRANSCO

Maharashtra State Electricity Transmission Co. Ltd.

Office of the Additional Executive Engineer
220/100kV Substation Vasai
At. & Po. Navghar (E), Th. Vasai, Dist. Palghar.
MH.Pin:401201
Mo.No. 9167418741
E-mail ID:dyeeh553@mahatransco.in

Ref: AddIEEE/VSI/220kV/2017-18/HR/N0- 01

Date:

02 JAN 2018

Certificate

In pursuance of the letter No. **CE/EHV/PCO&M/ZONE/VSH/HR/002516** dtd.14.12.2017, this is to certify that, **Mr. Tatyankush Sargar** student of Atharva College of Engineering Malad, has completed 15 days training w.e.f. 18.12.2017 to 02.01.2018 at the office of The Additional Executive Engineer, 220/100kV Vasai Substation, Maharashtra State Electricity Transmission Company Ltd. (MSETCL), Navghar, Vasai (East).

During this period his work and performance was found to be satisfactory and therefore this certificate is awarded. The organization wishes all the best for his bright future.

Shambharkar
ADDL EXECUTIVE ENGINEER
220/100 K.V. Sub-Station
M.S.E.T.C.L., Vasai.



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Vinit Surve had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares
Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

RELIANCE

Reliance Energy
Reliance Infrastructure Limited
369 D, S. V. Road
Kandivali (West)
Mumbai 400 067.

Tel: +91 22 3009 6999
Fax: +91 22 3009 4580
www.relianceenergy.in

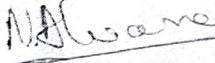
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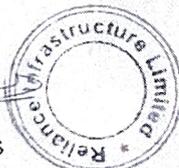
5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Pratik Londhe had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares
Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

5 January 2018

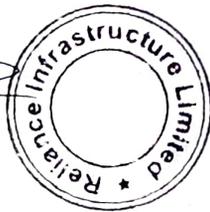
TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Bharat Umtol had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.

N. Alvares

Natasha Alvares
Sr. Manager (HR)



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Rahul Babhale had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.




Natasha Alvares

Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Siddhesh Sutar had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares
Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

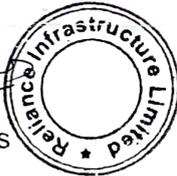
5 January 2018

TO WHOMSEVER IT MAY CONCERNED

This is certified that Mr Suraj Kunder had undergone successfully 'Internship Training' in with Reliance Infrastructure Limited from 21.12.2017 to 04.01.2018.

During the tenure, we found him sincere, hard working, having good ability to understand the subject. He is also enthusiasm and attentive.


Natasha Alvares
Sr. Manager (HR)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



Oil and Natural Gas Corporation Limited
Western Offshore Basin
Database Group, Priyadarshini Building
Sion, Mumbai-400022

File no: MR/WOB/Database/Summer-Trg/2017 Date 16.08.2017
From Shabib Raza Saiyed, Chief Engineer(E&T), Database Group, ONGC, Priyadarshini Bldg, Mumbai
To DGM - Head RTI, ONGC, 3rd Floor, NBP Green Height, BKC, Bandra(E), Mumbai-400051

Sub : Completion of Summer Training.

The following student(s) has / have successfully completed the assigned summer training as per the details given below:

Name of the student : Mr. Mayank P. Vyas
Mobile No. : 9892240896
Course pursuing : B.E (Electronics & Telecommunication)
University/Institute : Atharva College of Engineering, Mumbai.
Place of training : ONGC, WOB, Priyadarshini, Mumbai
Training/ project title : Familiarization of Interactive Interpretation Work Systems (IIWS) & VRC
Duration (days) : 57(days) From: 19-06-2017 To: 14-08-2017
RTI Trg.Letter no. and date : MR/RTI-MUM/256/Summer Trg/2017 , Dt. 04-05-2017
Name of mentor : Mr. Shabib Raza Saiyed
Designation & CPF No : Chief Engineer (E&T), 61877
Mobile No. : 9969222850
Office/Section Address : 374, 3rd Floor, C-Wing, Priyadarshini Building, Mumbai - 400022
Bill code No : 415
Concerned Finance : F & A, WOB, 2-B, Priyadarshini Building, Mumbai
Section address : Database Group, ONGC, 6-C, Priyadarshini Building, Mumbai - 400022
Comment/Remarks of Mentor : Completed Successfully

The completion certificate may please be issued.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI




(Signature of Mentor)
With Seal

शबीब रजा सैयद Shabib Raza Saiyed
मुख्य अभियंता (ई&टी) Chief Engineer (E&T)
VRC DATABASE WOB
ONGC MUMBAI 400022



Oil and Natural Gas Corporation Limited
Skill Development Centre

Sl. No. SDC/Summer Trg/2017-18/256

Work Centre: Mumbai

CERTIFICATE

This is to certify that Mr/Ms Mayank P. Vyas, a student of B.E. (Electronics & Telecommunication), Atharva College of Engineering, Mumbai, has undergone Summer Training at Data Base, Priyadarshini, ONGC, Mumbai, from 19/06/2017 to 14/08/2017.

He/She has successfully completed his/her Project Work on "Familiarization of Interactive Interpretation Work Systems (IIWS) & VRC" in the discipline of Electronics & Telecommunication under the guidance of Mr Shabib Raza, CE (E&T).

During the Training, he/she took keen interest in the assigned work. We wish him/her all success in his/her academic endeavours and life.

Date: 05/09/2017

Place : Mumbai




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

श्री. श्री. शबिब रजा
श्री. शबिब रजा (अध्यक्ष), सी. इंजीनियर (पी)
ONGC, Skill Development Centre, Mumbai

Training Co-ordinator

प्रसार भारती
PRASAR BHARTI
India's Public Service Broadcaster
दूरदर्शन केन्द्र
DOORDARSHAN KENDRA
पी.बी.मार्ग, वरळी, मुंबई - ४०० ०३०.
P.B.Marg, Worli, Mumbai-400 030.

No. DKM/ENGG/TRAINING/ 2017

DATED : 20/07/2017

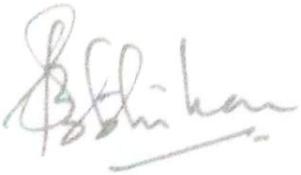
CERTIFICATE

This is to certify that Ms/Mr. Darshan Rawal
student of Atharva College of Engineering, Mumbai

has undergone Vocational training with Doordarshan Kendra
Mumbai, from 10/07/2017 to 15/07/2017.

He/She has been given training and exposure to operation and
maintenance of various sections in transmission, production
and post production of television programmes which includes,
Studio, Studio Lighting, Earth Station, High Power Transmitters
and Field Production Units.

I wish him / her all success.






PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

AUTHORISED SIGNATORY

सुनिता भिशीकर

SUNITA BHISHIKAR

निदेशक (अभियंता)

Director (Engg.)

दूरदर्शन केन्द्र, वरळी, मुंबई - ३०

Doordarshan Kendra Worli Mumbai-30

प्रसार भारती
PRASAR BHARTI
India's Public Service Broadcaster
दूरदर्शन केन्द्र
DOORDARSHAN KENDRA
पी.बी.मार्ग, वरळी, मुंबई - ४०० ०३०.
P.B.Marg, Worli, Mumbai-400 030.

No. DKM/ENGG/TRAINING/
2017

DATED : 20/07/2017

CERTIFICATE

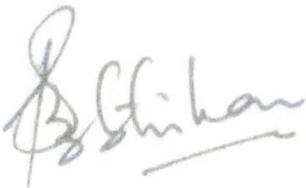
ET2

This is to certify that Ms/Mr. Divyansh Singh
student of Atharva College of Engineering, Mumbai

has undergone Vocational training with Doordarshan Kendra
Mumbai, from 10/07/2017 to 15/07/2017.

He/She has been given training and exposure to operation and
maintenance of various sections in transmission, production
and post production of television programmes which includes,
Studio, Studio Lighting, Earth Station, High Power Transmitters
and Field Production Units.

I wish him / her all success.



AUTHORISED SIGNATORY

सुनिता भिशीकर

SUNITA BHISHIKAR

प्रिन्सिपल (अभियंता)

अभियंता (Engr.)

दूरदर्शन केन्द्र, वरळी, मुंबई - ४००

Doordarshan Kendra, Worli, Mumbai-39.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

प्रसार भारती
PRASAR BHARTI
India's Public Service Broadcaster
दूरदर्शन केन्द्र
DOORDARSHAN KENDRA
पी.बी.मार्ग, वरळी, मुंबई - ४०० ०३०.
P.B.Marg, Worli, Mumbai-400 030.

No DKM/ENGG/TRAINING/ 2017

DATED : 20/07/2017

CERTIFICATE

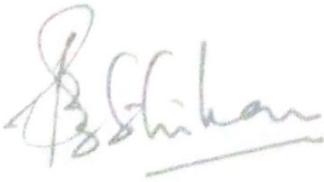
ET2

This is to certify that Ms/Mr. Pawan Sharma
student of Atharva College of Engineering, Mumbai

has undergone Vocational training with Doordarshan Kendra
Mumbai, from 10/07/2017 to 15/07/2017.

He/She has been given training and exposure to operation and
maintenance of various sections in transmission, production
and post production of television programmes which includes,
Studio, Studio Lighting, Earth Station, High Power Transmitters
and Field Production Units.

I wish him / her all success.



AUTHORISED SIGNATORY

सुनिता भिशीकर
SUNITA BHISHIKAR
विद्यार्थी (अभियंता)
विभाग (ENGG)
दूरदर्शन केन्द्र, वरळी, मुंबई - ४०० ०३०
Doordarshan Kendra, Worli, Mumbai-400 030




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

प्रसार भारती
PRASAR BHARTI
India's Public Service Broadcaster

दूरदर्शन केन्द्र
DOORDARSHAN KENDRA

पी.बी.मार्ग, वरळी, मुंबई - ४०० ०३०.
P.B.Marg, Worli, Mumbai-400 030.

No. DKM/ENGG/TRAINING/
2017

DATED : 20/07/2017

CERTIFICATE

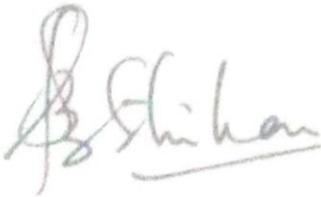
E92

This is to certify that Ms/Mr. Om Kadam
student of Atharva College of Engineering, Mumbai

has undergone Vocational training with Doordarshan Kendra
Mumbai, from 10/07/2017 to 15/07/2017.

He/She has been given training and exposure to operation and
maintenance of various sections in transmission, production
and post production of television programmes which includes,
Studio, Studio Lighting, Earth Station, High Power Transmitters
and Field Production Units.

I wish him / her all success.



AUTHORISED SIGNATORY

सुनिता भिशीकर

SUNITA BHISHIKAR

निदेशक (अभिर्वेता)

Director (Engg.)

दूरदर्शन केन्द्र, वरळी, मुंबई - ४००

Doordarshan Kendra Worli, Mumbai-400




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



मध्य रेल
CENTRAL RAILWAY

ISO 9001 : 2000

कार्यालय
मुख्य कारखाना प्रबन्धक,
विद्युत (सामान्य) शाखा,
मध्य रेल सवारी कारखाना
माटुंगा, मुंबई - 400 019
Office of the Chief Workshop Manager,
Electrical (General) Branch,
Carnage Workshop, Central Railway,
Matunga, Mumbai - 400 019
Tel : 24371103 Telefax : 4371102

NO: PG/E/Genl/Implant/17

DATE: 30/06/2017

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. GAUTAM PRINCE** Son of **Shri. GAURI SHANKAR PRASAD** of **ATHARVA COLLEGE OF ENGINEERING, MALAD(WEST), MUMBAI-400095** has undergone Inplant Training in **Carriage Workshop, Central Railway, Matunga, Mumbai-400019**, for Two Weeks From **15/06/2017** to **30/06/2017**.

(Handwritten signature of P.D. Tiwari)
30/6/17

(P.D. TIWARI)

AEE (G) MTN

Chief Workshop Manager

Matunga, Mumbai-19



(Handwritten signature of Principal)
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

ATG.WORLD

July 2, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Gautam Prince was employed with our firm Across The Globe (ATG.WORLD) from 01/06/2017 to 30/06/2017.

His major responsibilities included development and testing of our web platform www.atg.world, including manual testing and usage of GIT. His exposure in this area is very good.

During his job he easily handled major responsibilities and we found him to be hardworking and very productive for us. We have found him to be self starter who is motivated, duty bound, and a highly committed team player with strong analytical knowledge.

We wish him all success in his future endeavors.


Saurabh Bassi
Head, Product Development




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Across The Globe (ATG)
Purva Fountain Square, Marathahalli, Bangalore
KA, India - 560037
Ph : 9900036467



टाटा मूलभूत अनुसंधान संस्थान

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

होमी भाभा रोड, कोलाबा, मुंबई - 400 005.

Homi Bhabha Road, Colaba, Mumbai - 400 005

परमाणु ऊर्जा विभाग की स्वायत्त संस्था

भारत सरकार एवं समविश्वविद्यालय

An Autonomous Institution of the Department of Atomic Energy
Government of India and Deemed University

दूरभाष/Telephone: 022-2278 2000

फैक्स/Fax: 022-2280 4610/11

वेबसाइट/Website: www.tifr.res.in

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Vinayak Kanade, student of Atharva College of Engineering, Malad-Marve Road, Malad (W), Mumbai - 400 095 has been working as a student trainee from 12th January to 11th February 2017 at the Pelletron-Linac Accelerator Facility, Department of Nuclear and Atomic Physics, Tata Institute Of Fundamental Research.

He was involved in development of GUI for beam line vacuum display using LabVIEW.

I have found Mr. Vinayak Kanade to be very sincere, regular, hardworking and a very keen learner. He has also participated in all aspects of the development process, viz. LabVIEW VI programming and final testing during the project work. I wish him all success in any job he may undertake.

Sanjoy Pal
(Dr. Sanjoy. Pal)

Scientific Officer
Pelletron Accelerator Facility
Tata Institute of Fundamental Research
Colaba, Mumbai - 400 005



Sanjoy Pal
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Certificate No: CY17914000081



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Vinayak Ragho Kanade

HAS COMPLETED A

**Cypress University Alliance Training Program ON
Internet of Things (IoT)**

CONDUCTED BY **Eduvance**

ON **8th July 2017**



(Training Manager)



CYPRESS
EMBEDDED IN TOMORROW™



Training Partner

EduVance™

www.eduvance.in




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

THIS CERTIFICATE CAN BE VERIFIED AT WWW.EDUVANCE.IN USING THE CERTIFICATE NUMBER PROVIDED

This is to certify that

Vinayak Ragho Kanade

has completed a

Basic Level

ARM University Program Training Course

on

Embedded System Design and Programming

By EduVance™

8th July, 2017

Date

Sadanand Gulwadi

Sadanand Gulwadi

ARM University Program Global Manager



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

ARMUniversity

Worldwide Education Program

www.arm.com/university

Serial Number: SAEDU17FR000RE9842133332510460

Email university@arm.com with Serial Number and Name and "Certificate Validation" in subject to verify validity

EduVance™
www.eduvance.in

EduVanceTM
www.eduvance.in

M VAMNAT TECHNOLOGIES INITIATIVE

Certificate No: ED17400001122

Certificate of Training

This is to certify that

Vinayak Ragho Kanade

has successfully completed a Summer Industrial Training in

Embedded Systems and Internet of Things

conducted from 19th June 2017 to 8th July 2017.

The candidate scored a **B+** grade on this course.



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

[Signature]

Training Manager

Training Partners

ARM University Program



Indo Universal Collaboration
for Engineering Education


BHARAT SANCHAR NIGAM LIMITED
(A Govt of India Enterprises)
O/o General Manager Telecom District
Rail Head Complex, Trikuta Nagar Jammu

No: - JP/E-75/CFTS/C-III/2016/75

Dated: - 10th July 2017

To

The Principal
Atharva College of Engineering
Mumbai

Sub:-Industrial Training

Sir/Madam

Mr. Tanish Choudhary (Roll No 19) an Engineering student of your institute has successfully completed Two weeks industrial training in BSNL w.e.f 26.06.2017 in the following technologies.

1. Intelligent Network & Broadband.
2. GSM BTS Technology

We wish him good luck in his future.


18/7/17
Sub-Divisional Engineer (HRD)

O/o G.M.T D BSNL, Jammu.

उप मण्डल अभियंता (मा सं वि)

Sub Divisional Engineer (HRD)

कार्यालय महाप्रबंधक दूरसंचार जिला जम्मू

O/O GMTD, Jammu




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

CERTIFICATE

This is to certify that Mr. Tanish Choudhary under
College Roll No. 19 student of Atharva College of
Engineering, Malad, Mumbai in the Department of Electronics &
Telecommunication Engineering has successfully completed fifteen
days Summer Internship Training Report at central transformer repair
workshop, Jammu.

Under the Guidance of

Er. Harjit Singh *Harjit*
Er. Nasir Mehmood *NASIR*
Er. Sumit Puri *Sumit*
Er. Rajinder Choudhary *Rajinder*

Assistant Executive Engineer

Meenakshi
Er. Meenakshi Sadotra
Executive Engineer,
Elect. Workshop Sub-Division,
Jammu.



Principle
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

RELIANCE

Reliance Infrastructure Limited
Dahanu Thermal Power Station
Dahanu Road
Palghar 401 608, India
CIN: L75100MH1929PLC001530

Tel: +91 2528 225 000-09
Fax: +91 2528 222 576
www.rinfra.com

Ref: R-Infra/DTPS/TTC/2017 -18

Date: 31/07/2017

Training Certificate

This is to certify that Ms Komal N Bhosale, student of Atharva College of Engineering Mumbai has successfully completed Internship Training in the field "**Electronics & Telecommunication**" at Reliance Infrastructure Limited. 2 X 250 MW Dahanu TPS for the period 01st July 2017 to 31st July 2017.

During Internship period, we found her sincere, hardworking and result oriented. She worked well as part of a team during her tenure. We take this opportunity to wish all the best for her future assignment.



Gurudatta S Birje
In-Charge (Training)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

RELIANCE

Reliance Infrastructure Limited
Dahanu Thermal Power Station
Dahanu Road
Palghar 401 608, India
CIN: L75100MH1929PLC001530

Tel: +91 2528 225 000-09
Fax: +91 2528 222 576
www.rinfra.com

Ref: R-Infra/DTPS/TTC/2017 -18

Date: 31/07/2017

Training Certificate

This is to certify that Ms Shruti Sanjay Yadav, student of Atharva College of Engineering Mumbai has successfully completed Internship Training in the field "Electronics & Telecommunication" at Reliance Infrastructure Limited. 2 X 250 MW Dahanu TPS for the period 01st July 2017 to 31st July 2017.

During Internship period, we found her sincere, hardworking and result oriented. She worked well as part of a team during her tenure. We take this opportunity to wish all the best for her future assignment.



Gurudatta S Birje
In-Charge (Training)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

TRAINING AND INDUSTRIAL ENGINEERING DEPARTMENT
B.E.S. & T. Undertaking
C. Road Building 3rd Floor
Worli Marine Marg. Mumbai Central BEST Depot
Mumbai - 400 004
Tel. No. 222 200 2070 20957898

TIE/Est-36/ 1355 /2017

05 AUG 2017

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that **Ms. Snehal Ghanshyam Gawde** had undergone "Inplant Training" from 03.07.2017 to 15.07.2017 in Telecommunication & Electronics department of Electric Supply Branch of the B.E.S.& T. Undertaking.

Her conduct during the training period was found to be satisfactory.


Superintendent
Training & Industrial
Engineering Department




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

The Brihan Mumbai Electric Supply & Transport Undertaking

(OF THE BRIHAN MUMBAI MAHANAGARPALIKA)

TELEPHONE : (022) 22856262

FAX : (022) : 22851244

ELE : 1185755 BEST IN

ELEGRAM : BEST, MUMBAI-400 001.

ADDRESS ALL COMMUNICATION BY TITLE
NOT BY NAME

OUR REF

TIE/Est-36/ 1354 /2017

TRAINING AND INDUSTRIAL ENGINEERING DEPARTMENT

The B.E.S. & T. Undertaking

Club Road Building, 3rd Floor,

Maratha Mandi Marg, Mumbai Central BEST Depot,

Mumbai Central, Mumbai - 400 008.

Tel. No. 022-23077670, 23097698

BEST BHAVAN
BEST MARG,
POST BOX NO. 192
MUMBAI - 400 001

DATE: 05 JUL 2017

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that **Ms. Dhanashree Sukhadev Hirave** had undergone "Inplant Training" from 03.07.2017 to 15.07.2017 in Telecommunication & Electronics department of Electric Supply Branch of the B.E.S. & T. Undertaking.

Her conduct during the training period was found to be satisfactory.


Superintendent
Training & Industrial
Engineering Department




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

The Brihan Mumbai Electric Supply & Transport Undertaking

(OF THE BRIHAN MUMBAI MAHANAGARPALIKA)

TELEPHONE : (022) 22856262
FAX : (022) : 22851244
ELEX : 1185755 BEST IN
ELEGRAM : BEST, MUMBAI-400 001.

TRAINING AND INDUSTRIAL ENGINEERING DEPARTMENT

The B.E.S. & T. Undertaking
Club Road Building, 3rd Floor,
Mandir Marg, Mumbai Central BEST Depot,
Mumbai Central, Mumbai - 400 008.
022-23077670, 23097698

BEST BHAVAN,
BEST MARG,
POST BOX NO. 192
MUMBAI - 400 001.

ADDRESS ALL COMMUNICATION BY TITLE
NOT BY NAME

OUR REF.

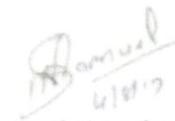
TIE/Est-36/1351/2017

DATE : 05 AUG 2017

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that **Ms. Vaishnavi Pramod Hajare** had undergone "Inplant Training" from 03.07.2017 to 15.07.2017 in Telecommunication & Electronics department of Electric Supply Branch of the B.E.S. & T. Undertaking.

Her conduct during the training period was found to be satisfactory.


Superintendent
Training & Industrial
Engineering Department




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

"BEST Travel Saves Fuel"

The Brihan Mumbai Electric Supply & Transport Undertaking

(OF THE BRIHAN MUMBAI MAHANAGARPALIKA)

TRAINING AND INDUSTRIAL ENGINEERING DEPARTMENT

The B.E.S. & T. Undertaking

Club Road Building, 3rd Floor,

Maratha Mandir Bldg, Mumbai Central BEST Depot,

Mumbai Central, Mumbai - 400 008.

Tel. No. 022-23077670, 23097698

BEST BHAVAN
BEST MARG,
POST BOX NO. 192
MUMBAI - 400 001

TELEPHONE

(022) 22856262

(022) 22851244

1185755 BEST IN

BEST, MUMBAI-400 001

TELEX
TELEGRAM

PLEASE ADDRESS ALL COMMUNICATION BY TITLE
NOT BY NAME

TIE/Est-36/1352/2017

FOR REF

DATE: 05 AUG 2017

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that **Ms. Kajal Pravin Patil** had undergone "Inplant Training" from 03.07.2017 to 15.07.2017 in Telecommunication & Electronics department of Electric Supply Branch of the B.E.S. & T. Undertaking.

Her conduct during the training period was found to be satisfactory.


Superintendent
Training & Industrial
Engineering Department




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

"BEST Travel Saves Fuel"

The Brihan Mumbai Electric Supply & Transport Undertaking

(OF THE BRIHAN MUMBAI MAHANAGARPALIKA)

TRAINING AND INDUSTRIAL ENGINEERING DEPARTMENT

The B.E.S. & T. Undertaking
Club Road Building, 3rd Floor,
Maratha Mandir Marg, Mumbai Central BEST Depot.
Mumbai Central, Mumbai - 400 004.
Tel. No. 022-23077670, 23097698

BEST BHAYAN
BEST MARG
POST BOX NO. 192
MUMBAI - 400 001

TELEPHONE (022) 22856262
FAX (022) : 22851244
TELEGRAM 1185755 BEST IN
BEST, MUMBAI-400 001.

ADDRESS ALL COMMUNICATION BY TITLE
NOT BY NAME

REF TIE/Est-36/1356/2017

DATE 05 AUG 2017

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that **Mr. Srishanth Manjappa Shetty** had undergone "Inplant Training" from 03.07.2017 to 15.07.2017 in Telecommunication & Electronics department of Electric Supply Branch of the B.E.S. & T. Undertaking.

His conduct during the training period was found to be satisfactory.



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

[Signature]
4/8/17
Superintendent
Training & Industrial
Engineering Department

Office of the Divisional Engineer,
Satellite Earth Station, Yeur
Western Telecom Region,
J.K. Gram, Yeur, Thane-400 606.
☎ : 022-25854693, FAX:022-25888091.



भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

No: E-8B/2/DE SM Yeur/B-63/2017-18/16

Dated at Yeur, the 07-07-2017

Certificate for advance level Vocational /Industrial Training with Specialization in Telecom Transmission technologies- Satellite Communications and OFC.

This is to certify that **Mr. Avdhesh Maurya** student of Atharva College of Engineering, Malad, Mumbai pursuing Bachelor of Engineering has successfully completed Industrial /Vocational Training of One week in advanced telecom with Specialization in Telecom Transmission Technologies - Satellite Communication and OFC with effect from 03/07/2017 at Satellite Earth Station, Yeur, Thane.

His performance during this training has been **Excellent**. BSNL wishes him all the best for a bright future.

Place : Yeur, Thane

Date : 07-07-2017

(ASHOK KATAKDHOND)
Divisional Engineer (Satellite Mtce.)
Satellite Earth Station,
Yeur, Thane.



BSNL
VSAT



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

परिमल दूरसंचार प्रशिक्षण केंद्र, नाशिक
CIRCLE TELECOM TRAINING CENTRE, NASHIK

BSNL

Connecting India



Certificate

प्रमाणित किया जाता है कि This is to certify that

THAKUR VAIBHAV R.

ने निम्नलिखित पाठ्यक्रम में भाग लिया एवम सफलतापूर्वक पूरा किया है।
has undergone & successfully completed below mentioned course

पाठ्यक्रम

TRAINING COURSE

Vocational Training for Engineering Students

from 03.07.2017 से 15.07.2017 तक
to

दिनांक / Date : 15.7.2017

सातपुर, नाशिक - 422 007.

Satpur, Nashik - 422 007.



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Vaibhav

प्राचार्य

Principal

BSNL

Connecting India

BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

परिमंडल दूरसंचार प्रशिक्षण केंद्र, नाशिक
CIRCLE TELECOM TRAINING CENTRE, NASHIK

प्रमाण पत्र
Certificate

प्रमाणित किया जाता है कि This is to certify that

SALUNKE POONAM R.

ने निम्नलिखित पाठ्यक्रम में भाग लिया एवं सफलतापूर्वक पूरा किया है।
has undergone & successfully completed below mentioned course

पाठ्यक्रम

TRAINING COURSE

Vocational Training for Engineering Students

03.07.2017

from

दिनांक / Date : 15.7.2017

सातपुर, नाशिक - 422 007.

Satpur, Nashik - 422 007.

तक 15.07.2017 तक

to


प्रभार
Principal

Principal



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

(भारत सरकार का उद्यम)

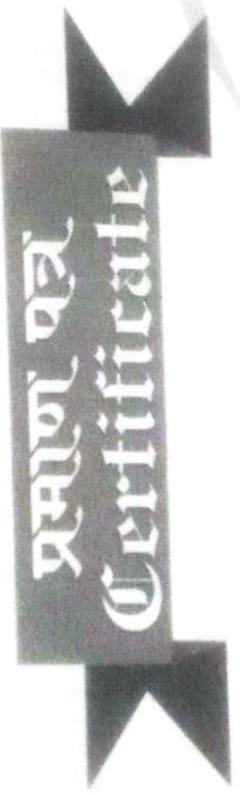
BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

**परिमंडल दूरसंचार प्रशिक्षण केंद्र, नाशिक
CIRCLE TELECOM TRAINING CENTRE, NASHIK**

BSNL

Connecting India



प्रमाणित किया जाता है कि *This is to certify that*

PATIL ANKIT A.

ने निम्नलिखित पाठ्यक्रम में भाग लिया एवम सफलतापूर्वक पूरा किया है।
has undergone & successfully completed below mentioned course

पाठ्यक्रम

TRAINING COURSE

Vocational Training for Engineering Students

from **03.07.2017** to **15.07.2017** तक

दिनांक / Date : 15.7.2017
सातपुर, नाशिक - 422 007.
Satpur, Nashik - 422 007.



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Kishor
प्रचार्य
Principal



भारत संचार निगम लिमिटेड

(A Govt. of India Enterprise)

BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

वैदेशिक सूचना केंद्र, नाशिक

CIRCLE TELECOM TRAINING CENTRE, NASHIK



BSNL

Communicating India



गणित विद्यापीठ आहे हे आहे. This is to certify that

NACHARE APURVA G.

ने विदेशीय विद्यापीठ येथे यशस्वीपणे पूर्ण केले आहे
has undergone & successfully completed below mentioned course

विद्यार्थी

TRAINING COURSE

Vocational Training for Engineering Students

from **19.06.2017** to **01.07.2017** at

दिनांक / Date : 17.2.2017
सातपूर, नाशिक - 422 007.
Satpur, Nashik - 422 007.

K. J. Jadhav
Principal



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

No.001577

Batch No.I323B13



Mahanagar Telephone Nigam Limited
(A Government of India Enterprise)

Centre for Excellence in
Telecom Technology & Management
Mumbai
[ISO 9001:2008 Certified]

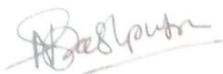


Certified that **Bhagyashree Chandrakant Koli** has
successfully completed the Certificate Course on

MYSQL And PHP Programming

at Centre for Excellence in Telecom Technology and
Management from 09/01/2017 to 19/01/2017

Dated at Mumbai 19/01/2017


Dy.G.M.(Trg. Mgmt.)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI





भारत संचार निगम लिमिटेड
(भारत संचार को. लिमिटेड)

BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

परिमल दूरसंचार प्रशिक्षण केंद्र, नाशिक
CIRCLE TELECOM TRAINING CENTRE, NASHIK

प्रमाण पत्र
Certificate

प्रमाणित किया जाता है कि This is to certify that

SHIGWAN AMESHA S.

ने निम्नलिखित पाठ्यक्रम में भाग लिया एवं सफलतापूर्वक पूरा किया है।
has undergone & successfully completed below mentioned course

पाठ्यक्रम

TRAINING COURSE

Vocational Training for Engineering Students

from **19.06.2017** से **01.07.2017** तक
to

दिनांक / Date : 1.7.2017
सातपुर, नाशिक - 422 007.
Satpur, Nashik - 422 007.



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Kaishik
प्राचार्य

Principal



Mahanagar Telephone Nigam Limited
(A Government of India Enterprise)

Centre for Excellence in
Telecom Technology & Management
Mumbai
[ISO 9001:2008 Certified]



Certified that **Bhagyashree Chandrakant Koli** has
successfully completed the Certificate Course on
Java Programming

at Centre for Excellence in Telecom Technology and
Management from 26/12/2016 to 31/12/2016

Dated at Mumbai 31/12/2016

Dy.G.M.(Trg. Mgmt.)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



Date: 28-07-2017

TO WHOMSOEVER IT MAY CONCERN

Sub: In-plant Training Completion Certificate

This is to certify that **Mr. Deepak Vinod Thambi** has completed 1 month of In-plant Training from **June 17th to July 17th 2017 at Schneider Electric President Systems Ltd., Bangalore.**

During this period, he was found to be sincere, hard working & demonstrated positive attitude and achieved his objective of learning more about the Manufacturing Process.

We wish him all the success in his future endeavor.

For Schneider Electric President Systems Ltd.



Srinivas Surapani
Vice President – HR Services




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



Bangalore
July 31, 2017

TO WHOMSOEVER IT MAY CONCERN

Sub: Industrial Training Completion

This is to certify that **Mr Deepak Vinod Thambi**, from **Atharva College of Engineering, Malad West Mumbai** has successfully completed his training on **"Networking and IT Help Desk Support"** under the supervision of **Mr. Sunil Kumar, Onsite IT** from **11 July 2017 to 31 July 2017**

During this period, he was found to be sincere, hard working & demonstrated positive attitude and achieved his objectives.

We wish him all the success in his future endeavor.

For Schneider Electric India Pvt. Ltd

Srinivas Surapani
Vice President – HR Services



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



28 July, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Sneha Ashutosh Sengupta(10573812)** was working as an Intern on the project **"Campus to Corporate Induction"** in our organization from **3 July 2017 to 31 July 2017.**

During the above period her conduct was found to be very good. We wish her all the best for all her future endeavors.

For Schneider-Electric India Pvt. Ltd

Rashmi Mudoi

Rashmi Mudoi
Manager



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Schneider Electric President Systems Ltd.
(formerly known as APW President Systems Limited)

House, 2nd Floor, Krishantai Marwah Marg,
Andheri (E), Mumbai - 400 072, India.

+91 22-3026 3300 | Fax: +91-22-3026 3333

info@apwpresident.com | Website: www.schneiderelectricpresident.com

L32109KA1984PLC079103



Date: 31-07-

TO WHOMSOEVER IT MAY CONCERN

Sub: In-plant Training Completion Certificate

This is to certify that **Ms. Sneha Sengupta** has completed **15 days** of In-plant Training from **June 15th, 2017** to **July 2nd, 2017** at **Schneider Electric President Systems Ltd., Bangalore.**

During this period, she was found to be sincere, hardworking & demonstrated positive attitude and achieved his objective of learning more about the Manufacturing process under IT.

We wish her all the success in his future endeavor.

For Schneider Electric President Systems Ltd.

Srinivas Surapani
Vice President – HR Services




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Date: 28-07-2017

TO WHOMSOEVER IT MAY CONCERN

Sub: In-plant Training Completion Certificate

This is to certify that **Mr. Niraj Vijay Shvtarkar** has completed **1 month of In-plant Training from June 17th to July 17th 2017 at Schneider Electric President Systems Ltd., Bangalore.**

During this period, he was found to be sincere, hard working & demonstrated positive attitude and achieved his objective of learning more about the Manufacturing Process.

We wish him all the success in his future endeavor.

For Schneider Electric President Systems Ltd.


Srinivas Surapani
Vice President – HR Services




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Bangalore
July 31, 2017

TO WHOMSOEVER IT MAY CONCERN

Sub: Industrial Training Completion

This is to certify that **Mr. Niraj Vijay Shrivarkar**, from Atharva College of Engineering, Malad West Mumbai has successfully completed his training on **"Networking and IT Help Desk Support"** under the supervision of **Mr. Sunil Kumar, Onsite IT** from **11 July 2017 to 31 July 2017**.

During this period, he was found to be sincere, hardworking & demonstrated positive attitude and achieved his objectives.

We wish him all the success in his future endeavor.

For Schneider Electric India Pvt. Ltd

Srinivas Surapani
Vice President – HR Services




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



नुक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
 NUCLEAR POWER CORPORATION OF INDIA LTD.
 (भारत सरकार का उद्यम)
 (A Government of India Enterprise)
 तारापुर परमाणु बिजलीघर
 TARAPUR ATOMIC POWER STATION
 तारापुर महाराष्ट्र स्थल Tarapur Maharashtra Site
 टीएपीबी, बोईसर (प.रे), जिला : पालघर (महाराष्ट्र) 401 504
 TAPP, Boisar (WR), Dist. Palghar, Maharashtra - 401 504

ISO 9001:2008

BS OHSAS 18001:2007



ISO 14001:2004

TAPS-3&4

भारतीय मानक ब्यूरो

IS 15001

Tel : 02525-282020

02525-244131

02525-244051 / 55

Fax: 02525-244786

Website : www.npcil.nic.in



No. TMS/HR-T&S/P.WTrg./2017/

15th July 2017

CERTIFICATE

This is to certify that **Ms. Sweta Dinkar Tandel**, Student of **Atharva College of Engineering, Malad(W), Mumbai (3rd Year, BE, Electronics & Telecommunication Engineering)** has successfully completed her Project work/Practical Training in this organization from **16/06/2017 to 15/07/2017.**

During this period, the student did project work/practical training on **"Study of Reactor Level Controller and its applications in TAPS 1&2"** at Tarapur Maharashtra Site (TAPS-1&2), NPCIL. It is further certified that during the period the student has been sincere and her conduct has been satisfactory.




 PRINCIPAL
 ATHARVA COLLEGE OF ENGINEERING
 MUMBAI


 15/07/17
(Ajay Parekh)
Manager (HR- T&S)
 अहमदाबाद, गुजरात, AJAYS PAREKH
 प्रमुख, मानव संसाधन (HR)
 तारापुर परमाणु बिजलीघर
 TARAPUR ATOMIC POWER STATION
 तारापुर महाराष्ट्र स्थल, टीएपीबी, बोईसर (प.रे), जिला : पालघर (महाराष्ट्र) 401 504
 PIN: TAPP, Boisar (WR), Dist. Palghar, Maharashtra - 401 504

नारायण पॉवर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
 NARAYAN POWER CORPORATION OF INDIA LTD
 (भारत सरकार का उद्यम)
 A Government of India Enterprise
 तारापुर परमाणु बिजलीघर
 TARAPUR ATOMIC POWER STATION
 तारापुर परमाणु स्थल Tarapur Maharashtra Site
 टारपुर बोईंगर (प.रे), जिला : पालघर (महाराष्ट्र) 401 504
 TAPP, Boisar (WR), Dist. Palghar, Maharashtra - 401 504



No. TMS/HR-T&S/P.WTrg./2017/

15th July 2017

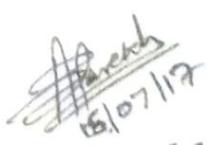
CERTIFICATE

This is to certify that **Ms. Aishwarya Ravindra Nemade**,
 Student of **Atharva College of Engineering, Malad(W), Mumbai (3rd**
Year, BE, Electronics & Telecommunication Engineering) has
 successfully completed her Project work/Practical Training in this
 organization from **16/06/2017 to 15/07/2017**.

During this period, the student did project work/practical training
 on **"Study of Reactor Level Controller and its applications in**
TAPS 1&2" at Tarapur Maharashtra Site (TAPS-1&2), NPCIL. It is
 further certified that during the period the student has been sincere
 and her conduct has been satisfactory.




 PRINCIPAL
 ATHARVA COLLEGE OF ENGINEERING
 MUMBAI


 15/07/17
(Ajay Parekh)
Manager (HR- T&S)
 अजय एस पारेक A. JAY S. PAREKH
 प्रबंधक (HR) : Manager (HR)
 तारापुर परमाणु बिजलीघर
 TARAPUR ATOMIC POWER STATION
 टारपुर बोईंगर (प.रे) जिला : पालघर (महाराष्ट्र) 401 504
 P.O. TAPP Boisar (WR), Dist. Palghar, Maharashtra - 401 504

तापूर पॉवर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
ATOMIC POWER CORPORATION OF INDIA LTD.
(भारत सरकार का उद्यम)

(A Government of India Enterprise)

तापूर परमाणु बिजलीघर

TARAPUR ATOMIC POWER STATION

महाराष्ट्र स्थल Tarapur Maharashtra Site
टापूरपी, बोईसर (प.रं), जिला : पालघर (महाराष्ट्र) 401 504
TAPP, Boisar (WR), Dist. Palghar, Maharashtra - 401 504

ISO 9001:2008

BS OHSAS 18001:2007



एनपीसीएल
NPCIL



ISO 14001:2004

पारिस्थितिक प्रणाली



TAPS-3&4



Tel : 02525-282020
02525-244131

02525-244051 / 55
Fax: 02525-244786

Website : www.apcil.nic.in

No. TMS/HR-T&S/P.WTrg./2017/

15th July 2017

CERTIFICATE

This is to certify that **Ms. Rani Rajendra Rokade**, Student of **Atharva College of Engineering, Malad(W), Mumbai (3rd Year, BE, Electronics & Telecommunication Engineering)** has successfully completed her Project work/Practical Training in this organization from **16/06/2017 to 15/07/2017**.

During this period, the student did project work/practical training on **"Study of Reactor Level Controller and its applications in TAPS 1&2"** at Tarapur Maharashtra Site (TAPS-1&2), NPCIL. It is further certified that during the period the student has been sincere and her conduct has been satisfactory.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI


(Ajay Parekh)
Manager (HR- T&S)

व्यक्ति का नाम: AJAY S PAREKH

पद: Manager (HR)

स्थान: टारपूर परमाणु बिजलीघर
TARAPUR ATOMIC POWER STATION
एनपीसीएल स्थल, टारपूर, पालघर (महाराष्ट्र) 401 504
पिन: 401 504, बोईसर (WR), Dist. Palghar, Maharashtra - 401 504



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



PRASAR BHARATI

(INDIA'S PUBLIC BROADCASTER)

VIVIDH BHARATI SERVICE: ALL INDIA RADIO

L.T.ROAD: BORIVALI (WEST)

MUMBAI-400091

CERTIFICATE

This is to certify that *Kum. Kajal Patil*,
student of Atharva College, Malad, studying III year EXTC,
has successfully undergone Practical Training Course
for one week w.e.f. 26.06.2017 to 01.07.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai



P.M. MEHTA

P.M. MEHTA

ASSISTANT ENGINEER



PRASAR BHARATI

(INDIA'S PUBLIC BROADCASTER)

VIVIDH BHARATI SERVICE: ALL INDIA RADIO

L.T.ROAD: BORIVALI (WEST)

MUMBAI-400091

CERTIFICATE

This is to certify that *Avdesh Maurya*, student of Atharva College, Malad, studying III year EXTC has successfully undergone Practical Training Course for one week w.e.f. 19.06.2017 to 24.06.2017 at Vividh Bharati Service, All India Radio, Borivali, Mumbai




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI




P.M. MEHTA
ASSISTANT ENGINEER



PRASAR BHARATI

(INDIA'S PUBLIC BROADCASTER)

VIVIDH BHARATI SERVICE: ALL INDIA RADIO

L.T. ROAD: BORIVALI (WEST)

MUMBAI-400091



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

CERTIFICATE

This is to certify that *Kum. Pranita Patil*,
student of Atharva College, Malad, studying III year EXTC,
has successfully undergone Practical Training Course
for one week w.e.f. 26.06.2017 to 01.07.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai



P.M. Mehta

P.M. MEHTA

ASSISTANT ENGINEER



PRASAR BHARATI
(INDIA'S PUBLIC BROADCASTER)
VIVIDH BHARATI SERVICE: ALL INDIA RADIO
L.T. ROAD: BORIVALI (WEST)
MUMBAI-400091

CERTIFICATE

This is to certify that *Kum. Vaishnavi Hajare*,
student of Atharva College, Malad, studying III year EXTC,
has successfully undergone Practical Training Course
for one week w.e.f. 26.06.2017 to 01.07.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI




P.M. MEHTA
ASSISTANT ENGINEER



PRASAR BHARATI
(INDIA'S PUBLIC BROADCASTER)
VIVIDH BHARATI SERVICE: ALL INDIA RADIO
L.T.ROAD: BORIVALI (WEST)
MUMBAI-400091




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

CERTIFICATE

This is to certify that *Kum. Priyanka Sale* student of Atharv College, Malad, studying III year EXTC Engineering, has successfully undergone Practical Training Course for one week w.e.f. 05.07.2017 to 11.07.2017 at Vividh Bharati Service, All India Radio, Borivali, Mumbai



P.M. MEHTA
ASSISTANT ENGINEER



PRASAR BHARATI

(INDIA'S PUBLIC BROADCASTER)

VIVIDH BHARATI SERVICE: ALL INDIA RADIO

L. T. ROAD: BORIVALI (WEST)

MUMBAI - 400091



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

CERTIFICATE

This is to certify that *Kum. Dhanashree Hirave*,
student of Atharva College, Malad, studying III year EXTC,
has successfully undergone Practical Training Course
for one week w.e.f. 26.06.2017 to 01.07.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai



P.M. Mehta
P.M. MEHTA
ASSISTANT ENGINEER



PRASAR BHARATI

(INDIA'S PUBLIC BROADCASTER)

VIVIDH BHARATI SERVICE: ALL INDIA RADIO

L.T. ROAD: BORIVALI (WEST)

MUMBAI-400091




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

CERTIFICATE

This is to certify that *Kum. Snehal Gawade*,
student of Atharva College, Malad, studying III year EXTC,
has successfully undergone Practical Training Course
for one week w.e.f. 26.06.2017 to 01.07.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai




P.M. MEHTA
ASSISTANT ENGINEER



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



PRASAR BHARATI

(INDIA'S PUBLIC BROADCASTER)

VIVIDH BHARATI SERVICE: ALL INDIA RADIO

L.T. ROAD: BORIVALI (WEST)

MUMBAI - 400091

CERTIFICATE

This is to certify that *Manish Nishad*, student of
Atharva College, Malad, studying III year EXTC
has successfully undergone Practical Training Course
for one week w.e.f. 19.06.2017 to 24.06.2017 at
Vividh Bharati Service, All India Radio, Borivali, Mumbai



P.M. Mehta

P.M. MEHTA
ASSISTANT ENGINEER

Certificate of Training

Internet of Things



GAURANG PANDIT

has successfully undergone a four weeks online training on Internet of Things. The training program consisted of IoT Platform, IoT Introduction & Web Control, Hardware Interfacing & Control and IoT Experiments modules and lasted for four weeks from 1st January, 2017 to 29th January, 2017.

We wish all the best for future endeavours.




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Sarvesh Agrawal
Founder & CEO


INTERNSHALA
VIRTUAL TRAINING CENTER

An IIT Alumni Venture

Date of certification: 2017-03-29
Certificate Number: 135920644158db7907cbd5d

For certificate authentication, please visit vttc.internshala.com/certificate

31th July 2017

To Whomsoever It May Concern

This is to certify that **Mr. Pranay Shah** from **Atharva Collage of Engineering, Malad** has completed his internship at Reliance Jio Infocomm Limited in partial fulfilment of the Institute course requirements from **16th June 2017 to 30th July 2017.**

During this period **Mr. Pranay Shah**, underwent training on "**Basics of LTE**" under the guidance of **Mr. Digvijay P. Singh.**

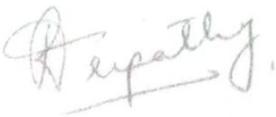
Please Note: As the project involves highly sensitive data, all the details and the contents made towards the project needs to be kept confidential. Under no circumstances must this be shared nor distributed in any form to anyone other than the company authorized personnel or as is required by law. It is expected that **Mr. Pranay Shah** complies and observes to the company policy and its rules.

During the internship period, we found him sincere and diligent.

We wish him all the best in all his future endeavors,

For Reliance Jio Infocomm Limited.

Authorized Signatory,



Technology – HR

(Reliance Jio Infocomm Ltd)




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI



Dated-02 June 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Aniket Pachchhapur** has done his summer training in **M/s Valu Connex Telecom Services Pvt. Ltd** from **10th January 2017 to 10th April 2017.**

He worked on the Project "4G Data Network experience for Vodafone across different cities in India" under guidance of **Mr. Praful Umarania** (Project Director)

He was found sincere & hard working during this tenure.

We wish him to all the best for his future Endeavour's.

Authorized Signatory
For Valu Connex Telecom Services Pvt. Ltd



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Valu Connex Telecom Services Pvt. Limited, 14/103 NRI Complex Sector 54/56/58
Nerul - 400706 Phone :-+91.2232274469

20th July, 2017



Chromline
17 & 17 A, GR. FLR., UDYOG BHAVAN,
SONAWALA ROAD, GOREGAON (E),
MUMBAI - 400 063, INDIA
TEL : +91-22-2686 1442 / 2686 0816 / 9188 7317
FAX : +91-22-2686 0306
E-mail : mail@chromline.in Website : www.chromline.in

CHROMLINE EQUIPMENT COMPANY

CERTIFICATE

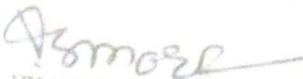
This is to certify that **Mr. Soham Krishna Kulkarni** student of **Atharva college of Engineering, Malad** studying in Fourth year (final year) of EXTC (Electronics and Telecommunication) branch, has gone under internship in our Service Division for the period mentioned as below:

- I. **Year 2016: From 1st March, 2016 to 30th April, 2016**
- II. **Year 2017: From 15th June, 2017 to 20th July, 2017.**

He has received training on following activities related to Electronics & Telecommunication:

- 1) Installation of Analytical Laboratory Equipment like UV Spectrometer, HPTLC, Gas Chromatograph, High Performance Liquid Chromatograph and Osmometer.
- 2) Calibration & validation of wavelength, pressure and flow of UV Detectors and Pumps respectively.
- 3) Testing Switch Mode Power Supply used in UV Detectors, Pumps, Osmometers, etc.
- 4) Communication & control of operating parameters of Lab Equipment using Wi Fi connection & tablet.

We found him sincere, hardworking & focused during internship at our Service Division.


VIJAY B. MORE
C.E.O.




SANJEEV PRADHAN
Service Manager




PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

TRUSTED NAME IN CUSTOMER SUPPORT



Techno Skills Education & Training, Pune

Summer Internship Program™
S I P - 2 0 1 7

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. Gaurang Pandit of
Atharva College Of Engineering, Mumbai has
completed his/her summer Internship from Techno Skills Education
& Training, Pune

Reg. ID : SIP/230617/ROB01

Start Date : 23/06/2017

End Date : 22/07/2017

Course Name : Robotics With Embedded C

Duration : 30 Days

Location : Pune

Project Name : Mobile Controlled Robot

Grade : A+

M. Shargae
M/s. Techno Skills Education Training LLP
34/304, Maharshi Nagar, Opp. Zambare Palace,
Muband Nagar, Pune - 411037.

Manali Kshirsagar
Director
Techno Skills Education Training LLP



Principals
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Registered Email: (All in capital letters)

G.PANDIT@GMAIL.COM

Certificate number provided

EduVanceTM
www.eduvance.in

M YANMAT TECHNOLOGIES INITIATIVE

Certificate No: ED17400001121

Certificate of Training

This is to certify that

Yogesh Nagnath Mergu

has successfully completed a Summer Industrial Training in

Embedded Systems and Internet of Things

conducted from 19th June 2017 to 8th July 2017.

The candidate scored a **B** grade on this course.



PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Training Manager

Training Partners



ARM University Program

This certificate can be verified at www.eduvance.in. This certificate can be verified at www.arm.ac.in. This certificate number provided.

This is to certify that

Yogesh Nagnath Mergu

has completed a

Basic Level

ARM University Program Training Course

on

Embedded System Design and Programming

By EduVance™

Sadanand Gulwadi

Sadanand Gulwadi
ARM University Program Global Manager

8th July, 2017

Date



Principle
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

ARMUniversity

Worldwide Education Program

www.arm.com/university

Serial Number: SAEDU17FR000RE3580451592819470

Email university@arm.com with Serial Number and Name and "Certificate Validation" in subject to verify validity

EduVance™
WWW.EDUVANCE.IN



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Yogesh Nagnath Mergu

HAS COMPLETED A

**Cypress University Alliance Training Program ON
Internet of Things (IoT)**

CONDUCTED BY **Eduvance**

ON **8th July 2017**

(Training Manager)



Training Partner



Certificate of Training

This is to certify that

Nikhil Sanjaykumar Ahire.

has successfully completed a Summer Industrial Training in

Embedded Systems and Internet of Things

conducted from 19th June 2017 to 8th July 2017.

The candidate scored a **B+** grade on this course.



[Signature]
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

[Signature]

Training Manager

Training Partners

ARM University Program



Indo Universal Collaboration
for Engineering Education

Nikhil Sanjaykumar Ahire.

has completed a

Basic Level

ARM University Program Training Course

on

Embedded System Design and Programming

By EduVance™

8th July, 2017

Date

Sadanand Gulwadi

Sadanand Gulwadi

ARM University Program Global Manager



Princip
PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

ARMUniversity

Worldwide Education Program

www.arm.com/university

Serial Number: SAEDU17FR000RE2506597174758720

Email: university@arm.com with Serial Number and Name and "Certificate Validation" in subject to verify validity

EduVance™
WWW.EDUVANCE.COM

Certificate No: CY17914100079



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Nikhil Sanjaykumar Ahire.

HAS COMPLETED A

**Cypress University Alliance Training Program ON
Internet of Things (IoT)**

CONDUCTED BY **Eduvance**

ON **8th July 2017**



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PRINCIPAL
ATHARVA COLLEGE OF ENGINEERING
MUMBAI

[Signature]

(Training Manager)

Training Partner
EduVance™
www.eduvance.in



THIS CERTIFICATE CAN BE VERIFIED AT WWW.EDUVANCE.IN USING THE CERTIFICATE NUMBER PROVIDED

Certificate of Training

This is to certify that

Khataavkar Mayur Praveen

has successfully completed a Summer Industrial Training in

Embedded Systems and Internet of Things

conducted from 19th June 2017 to 8th July 2017.

The candidate scored a **B+** grade on this course.



Training Manager



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ATHARVA COLLEGE OF ENGINEERING
MUMBAI

Training Partners





CERTIFICATE of COMPLETION

THIS IS TO CERTIFY THAT

Khataavkar Mayur Praveen

HAS COMPLETED A

Cypress University Alliance Training Program ON

Internet of Things (IoT)

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ON **8th July 2017**



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ATHARVA COLLEGE OF ENGINEERING
MUMBAI

[Signature]

(Training Manager)



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EMBEDDED IN TOMORROW



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Mayur P Khatavkar

has completed a

Basic Level

ARM University Program Training Course

on

Embedded System Design and Programming

By EduVance™

8th July, 2017

Date

Sadanand Gulwadi

Sadanand Gulwadi

ARM University Program Global Manager



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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

T. Anas Ahmed Thirukulacheri

HAS COMPLETED A

**Cypress University Alliance Training Program ON
Internet of Things (IoT)**

CONDUCTED BY **Eduvance**

ON **8th July 2017**




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on

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8th July, 2017

Date

Sadanand Gulwadi

Sadanand Gulwadi

ARM University Program Global Manager



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Email: university@arm.com with Serial Number and Name and "Certificate Validation" in subject to verify validity

Certificate of Training

This is to certify that

T. Anas Ahmed Thirukulacheri

has successfully completed a Summer Industrial Training in

Embedded Systems and Internet of Things

conducted from **19th June 2017 to 8th July 2017.**

The candidate scored a **A** grade on this course.



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ARM University Collaborator
or Engineering Institute

Certificate of Training

This is to certify that

Radhika Dattatray Redkar

has successfully completed a Summer Industrial Training in

Embedded Systems and Internet of Things

conducted from **19th June 2017 to 8th July 2017.**

The candidate scored a **B+** grade on this course.



Training Manager




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