

ATHARVA ROBOTICS CENTER

Daily News on Innovation & Technology

24th October, 2025

Earth has a new moon: Scientists have named it Arjuna 2025 PN7

By India Today Science Desk, October 22, 2025

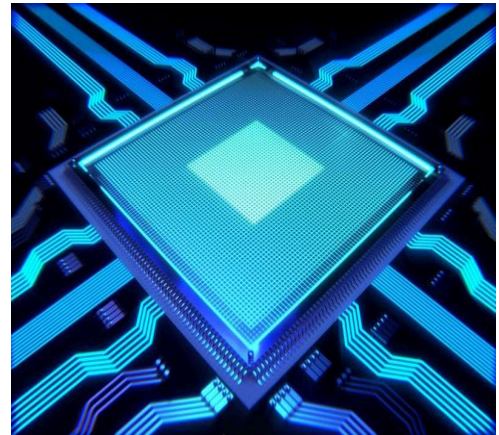
Earth has a new celestial companion, a small asteroid named 2025 PN7, recently confirmed to be our planet's latest quasi-moon, or quasi-satellite. According to a new research paper, "Meet Arjuna 2025 PN7," this space rock has been looping around Earth in a complex orbital dance since the 1960s and will continue to do so until the 2080s.



Ultra-compact semiconductor could power next-gen AI and 6G chips

By JooHyeon Heo, UNIST, October 21, 2025

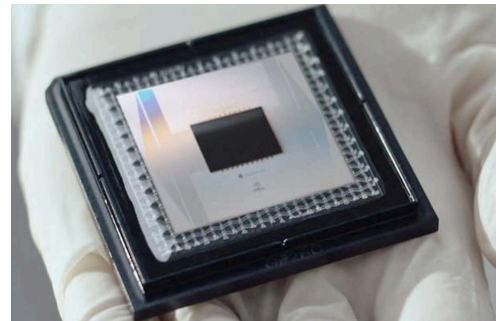
A research team, led by Professor Heein Yoon in the Department of Electrical Engineering at UNIST has unveiled an ultra-small hybrid low-dropout regulator (LDO) that promises to advance power management in advanced semiconductor devices. This innovative chip not only stabilizes voltage more effectively, but also filters out noise—all while taking up less space—opening new doors for high-performance system-on-chips (SoCs) used in AI, 6G communications, and beyond.



Google claims first 'verifiable' quantum advantage for Willow chip

By Vasudevan Mukunth, October 22, 2025

The result has significant consequences for the future of quantum computing; foremost is that it draws a clear line between what regular computers can do and what only quantum computers can do.



[China's first reusable rocket aces key engine test to challenge Elon Musk's SpaceX](#)

By Chris Young, October 22, 2025

China's LandSpace has completed a key static fire test for its Zhuque-3 rocket, moving closer to launching the nation's first reusable rocket. China's private space industry is evolving at a dramatic pace, as it continues to strive to take on Elon Musk's SpaceX. In a new development, Chinese rocket firm LandSpace conducted a key static fire test on its Zhuque-3 rocket this Monday, October 20.



[Future of robots powered by living muscle cells mapped by Harvard-led study](#)

By Atharva Gosavi, October 24, 2025

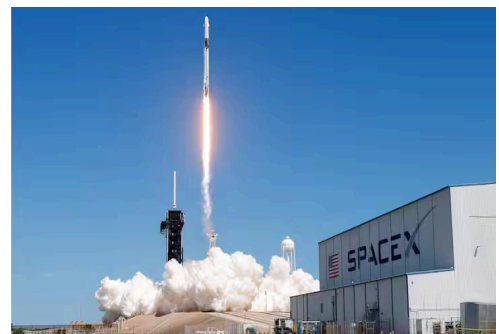
Fusing living tissues with synthetic structures could create robots that behave like human beings. A new research paper suggests scientists are working on designing robots that could live on muscle cells like humans, ditching gears and motors. Led by Dr. Su Ryon Shin of Harvard Medical School, engineers and biologists are working on fusing living tissue with synthetic structures to create humanoids and robots that behave more like human beings.



[SpaceX breaks annual launch record with 133rd Falcon 9 flight](#)

By [Mudit Dube](#), October 23, 2025

SpaceX has set a new milestone by successfully launching its 133rd Falcon 9 rocket of the year. The historic launch took place on Wednesday from California's Vandenberg Space Force Base. The mission, which lifted off at 7:16am PT, carried 28 Starlink satellites into low-Earth orbit (LEO).



Chinese tech firms showcase new humanoid robots, underlining rapid advances in service robotics

By GT staff reporters, October 20, 2025

Chinese tech firms have unveiled next-generation humanoid robots, highlighting the country's rapid advances in service robotics and its accelerating push toward large-scale commercialization, a Chinese expert said. Unitree Robotics on Monday unveiled a new 1.8-meter-tall humanoid robot named Unitree H2, which moves with remarkable agility and grace, showing major progress in motion flexibility, according to a video the company sent to the Global Times.



News Articles

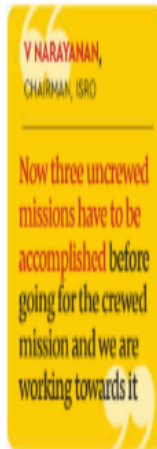
Nearly 90% work done on Gaganyaan Mission, says Isro chief

PRESS TRUST OF INDIA
Bengaluru, October 23

THE GAGANYAAN MISSION is progressing steadily with nearly 90% of the development work being completed, Isro Chairman V Narayanan said on Thursday.

The Gaganyaan mission is India's first human space-flight mission under development.

"The Gaganyaan mission is going very well. In fact, when you talk about the Gaganyaan mission, a lot of technology development has to take



place, you are aware – the rocket has to be human-rated, the orbital module has to be developed, and the environ-

mental control safety system has to be developed. Then coming to the crew escape system, parachute system and

then, of course, human-centric products," Narayanan said while responding to a question about the progress of the

mission.

He was speaking to reporters on the sidelines of the promotional activities for the upcoming Emerging Science, Technology, and Innovation Conclave (ESTIC-2025), scheduled to be held from November 3 to 5 in New Delhi.

He said that approximately 90% of the development work has been completed.

"Now three uncrewed missions have to be accomplished before going for the crewed mission and we are working towards it. In the first

uncrewed mission, Vyommitra is going to fly and we are working towards that to accomplish the crewed mission by the beginning of 2027," he added.

On August 24, 2025, Isro accomplished the first integrated air drop test for the Gaganyaan programme at the Satish Dhawan Space Centre in Sriharikota.

According to Isro, this test successfully demonstrated the objective of end-to-end performance validation of the critical parachute-based deceleration system of the

crew module for the Gaganyaan mission in one of the typical mission scenarios.

"For the Gaganyaan programme, the integrated air drop test – because when the entire module returns in the final phase almost nine parachutes have to work in a synchronised way for the proper splashdown – so we lifted off a simulated module using a helicopter to a height of around three kilometres above the Earth. Using nine parachutes, it was successfully splashed down," the Isro Chairman said.

Source: Financial Express Newspaper, 24-10-2025

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Link: <https://drive.google.com/file/d/1fA8PhsnBJSYT9idwyTQFHdTG1Brz2OH0/view>

Domestic startups ride the AI-built vibe coding wave

§ SHANTHI
Bengaluru, October 22

AS VIBE CODING becomes a global buzzword, domestic startups are jumping into build tools that let anyone create apps by simply describing what they want. Whether as full-fledged platforms or add-on features, these startups are betting big on a future where software is designed in plain language and built by artificial intelligence (AI).

Vibe coding allows users to tell an AI platform—in simple prompts—what they need, and the system generates the code and interface within moments. “For example, you can say, ‘Build a dashboard to track customer orders, and it will generate a layout connected to your data with the basic logic built in,’” Jinen Dedia, co-founder of DronaHQ, a low-code platform that is developing its own vibe

coding tool, told FE.

The term recently gained traction in the US, with platforms such as Replit, Cursor, GitHub Copilot, Windsurf, and Bolt driving global adoption. In India, however, the movement is gathering its own momentum. Bengaluru and other tech hubs are hosting vibe coding hackathons, and startups like Rocket.new, TableSprint, Emergent, Composio, and DronaHQ are racing to build local versions tailored for domestic and global users.

TableSprint, a Bengaluru-based no-code app builder, launched its vibe coding platform just weeks ago. It lets users create enterprise-grade web and mobile applications through natural language inputs.

“Public apps, private secure apps with AI agents, and a library of templates are available on our website. We also offer training

TECH SUPPORT

■ Vibe coding allows users to tell an AI platform in simple prompts what they need

■ The system generates the code and interface within moments

■ Bengaluru and other tech hubs are hosting vibe coding hackathons



■ Rocket.new, TableSprint, Emergent, Composio and DronaHQ working on local versions

■ US platforms such as Replit, Cursor, GitHub Copilot, Windsurf & Bolt driving global adoption

and implementation support,” NagaSanthosh Josyula, co-founder of TableSprint, said. The company already has 10,000 users, including 1,200 paid subscribers, and claims 2x month-on-month revenue

growth. Demand is strong from sectors such as BFSI, manufacturing, e-commerce, and edtech, he added.

Emergent, another platform launched in June, is going after non-technical founders and

and payments automatically set up,” Mukund Jha, co-founder and CEO, said. The startup claims over 1 million users have built 1.5 million apps in just 90 days. It also says it hit \$10 million in annual recurring revenue (ARR) within 60 days of launch and grew that to \$15 million ARR a month later.

At DronaHQ, which traditionally focused on internal enterprise tools, the team spotted a key gap. “Tools like Lovable and Replit could generate UIs, but they often stopped there, leaving users to figure out how to connect data or handle essentials like audit trails and SSO,” Dedia said. DronaHQ began building its own vibe coding experience in January and has since rolled out a beta version to select enterprise accounts. Over 30% of early adopters have already used it for internal projects such as dashboards and

approval workflows. Dedia said 70% of prompts are now generating workable layouts that need only minimal edits. The tool will be opened for wider availability by the end of this month.

Globally, vibe coding tools are priced on freemium or tiered subscription models, starting around \$10 a month and going up based on usage. Most offer per-user pricing, with custom plans for enterprise clients.

Investor interest is also flowing in. Rocket.new, a Surat-based startup, recently raised \$15 million in seed funding. Launched earlier this year, it has already crossed 400,000 users, including 10,000 paid subscribers, underscoring the fast-growing demand.

Industry watchers say this marks a significant shift in how software will be built and deployed. Debashish Chatterjee,

partner at Deloitte India, noted that vibe coding is moving “from a proof-of-concept novelty to a practical tool driving real outcomes.” Startups and innovation teams in fintech and e-commerce are using it to validate ideas, test customer journeys, and iterate faster. In banking and insurance, vibe coding is helping teams build dashboards, reporting tools, and workflow apps that cut down IT delays, he said.

Chatterjee added that AI-built code also comes with challenges: “AI-generated code often lacks structure and consistency, creating technical debt and security risks. Developers remain crucial as stewards of governance and scalability,” he warned. Over time, he expects a hybrid model to emerge, where AI drafts the base, while human developers refine and secure the final product.

Source: Financial Express Newspaper, 23-10-2025

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