Integem Launches AI Space Drone & Space Explorer Program for K-12

K-12 students build, code, and fly AI-powered drones while launching near-space balloons to gather stratosphere data

A teen girl flying her AI Space Drone at Camp Integem

A high school boy is analyzing near-space data at Camp Integem

PALO ALTO, CA, UNITED STATES, February 25, 2025 /EINPresswire.com/ -- As AI reshapes industries and human exploration of space advances at an unprecedented pace, Integem is launching the AI Space Drone & Space Explorer Program, a transformative educational experience where K-12 students build, code and fly AI-powered drones while launching stratospheric space balloons to nearly 100,000 feet. No prior experience is required.

This program arrives at a pivotal moment. Space agencies and private companies worldwide are accelerating efforts to explore the Moon, Mars and beyond, while AI-driven robotics play an increasingly critical role in planetary research, satellite technology, environmental monitoring and disaster response. As these fields evolve, the next generation must be equipped with the skills and mindset to contribute, innovate and lead.

Developed by AI researchers, engineers and educators, the program brings aerospace and artificial intelligence to students through real-world engineering projects. It provides hands-on experience with AI-driven drone flight, autonomous navigation, and high-altitude scientific exploration. Students will design, build and program autonomous drones, study AI's role in space missions and conduct their own stratospheric experiments.

The program is designed to be accessible to all students, regardless of their previous exposure to

STEM. Elementary students begin by building and flying drones, gaining foundational knowledge of aerodynamics, basic coding and AI concepts. Middle and high school students take on more advanced challenges, programming drones for AI-driven autonomous flight, experimenting with real-world navigation solutions, and launching stratospheric balloons to collect atmospheric data from near space. Participants also have the opportunity to earn an NVIDIA AI certification, enhancing college applications and future career prospects in AI and engineering.

An elementary school girl is learning about AI space tech at Camp Integem

Integem offers several flexible options for students, schools and organizations to experience its STEM programs. Students can attend in-person summer camps at 16 locations across California. Online courses are available worldwide through Integem's virtual learning platform. Schools and educational institutions can integrate the curriculum with full support, including teacher training, curriculum guides, hardware kits and ongoing mentorship.

> Integem is reshaping aerospace education by blending advanced drone & space technology with artificial intelligence."
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> *Dr. Eliza Du, CEO, Integem*

For schools and educational institutions, Integem provides a licensing solution featuring an exclusive curriculum powered by patented technology. This program brings holographic augmented reality, artificial intelligence, robotics and near-space exploration to life through hands-on, interactive learning. The licensing package includes step-by-step curriculum and tutorials, all necessary materials and hardware kits, teacher training, technical support and marketing resources. With ACS WASC accreditation and a partnership with NVIDIA AI, Integem's programs offer institutions an opportunity to provide cutting-edge STEM education that prepares students for the careers of tomorrow.

The AI Space Explorer Program is more than an educational opportunity—it is a gateway to the future. It exposes students to fields that will define the next century, from AI-driven robotics shaping space exploration to the role of unmanned aerial vehicles in environmental science and planetary research. Students will gain the skills to not only understand these fields but actively shape their future.

At a time when AI is revolutionizing industries and humanity is preparing for deeper space exploration, early exposure to these fields is critical. The next generation will not only witness

major advancements in AI and space travel but will be expected to solve complex challenges—from using AI to monitor climate change on Earth to developing autonomous systems for Mars colonization. Giving young students direct experience with AI-powered drones and high-altitude experiments prepares them for careers in aerospace, robotics, AI and beyond. It also fosters a mindset of exploration and innovation, inspiring students to think beyond Earth and imagine possibilities that could one day redefine human civilization.

"Integem is reshaping aerospace education by blending advanced drone & space technology with artificial intelligence," said Dr. Eliza Du, CEO of Integem. "Our program goes far beyond basic drone piloting. Students dive deep into drone making, sensor integration, data analytics, and autonomous system design—skills essential for developing innovative solutions in sustainable space exploration. By learning these interdisciplinary tools, they are not only preparing for transformative careers in engineering, research, and AI, but also contributing to the breakthroughs that will propel humanity further into the cosmos."

By engaging in hands-on drone engineering, AI programming and space-based experiments, students develop a combination of technical expertise and problem-solving abilities. They do not just learn to use technology—they learn to create, adapt and push boundaries. They gain the confidence to tackle complex challenges, whether on Earth or in the future frontiers of space.

With the AI Space Explorer Program, students will not only fly drones and launch space balloons but will also experience firsthand the power of science and technology to transform the world. They will witness how AI can enhance exploration, how drones can assist in planetary research, and how high-altitude experiments can provide valuable data on the Earth's atmosphere and beyond. This is not just STEM education; it is preparation for the future of human civilization.

Registration is now open. For more information, visit camp.integem.com or contact support@integem.com, +1-408-459-0657.

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