

Addressing the Space Junk Crisis; Titans Space Industries and Robotics Startup Form Strategic Partnership

Titans Space Industries is partnering with a revolutionary Robotics and AI startup and is also considering funding them throughout their development phases.

ORLANDO, FL, UNITED STATES, April 16, 2025 /EINPresswire.com/ -- Titans Space Industries (TSI), a leading innovator in space transportation and infrastructure, has announced the signing of a Memorandum of Understanding (MoU) with an up-and-coming startup specializing in advanced robotics and artificial intelligence. This strategic partnership marks a significant step towards realizing a future where humanity thrives as a space-faring civilization, while also addressing the growing threat of space debris.



Strategic Partnership - Deployment

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We need robotics for our on-orbit missions and operations. Furthermore, we are committed to not only building the future of space infrastructure but also ensuring its sustainability.”

Neal S. Lachman, CEO & Chief of Spacecraft Design

- On-Orbit Assembly and Servicing: Robotic arms and free-flying systems streamlining the construction and maintenance of orbital platforms and spacecraft like Titans spaceships and space stations. This includes on-orbit servicing (OOS) for tasks such as on-orbit assembly of new structures, on-orbit tanker attachments for refueling, and the repair and maintenance of existing space assets.

- Space Junk Removal: Addressing the growing challenge of orbital debris to ensure the safety and sustainability of space activities. TSI will build a fleet of [Titans Spaceplanes](#),

revolutionary single-stage-to-orbit, horizontal takeoff and landing spaceplanes, each equipped with at least two long-range robotic arms (with force exertion for maneuvering massive objects) and free-flying systems to do large-scale cleanup.

- Lunar Operations: Supporting future lunar missions with robotic arms for lunar rovers and lunar trucks, facilitating resource utilization and infrastructure development.

See video 1: Module Deployment

https://youtu.be/_mQpu8QVru0

See video 2: Module Grappling:

<https://youtu.be/c-FoCzXu1XM>

See video 3: Free-Flyer Capture:

<https://youtu.be/ea9siyadljo>

A key aspect of the startup's technology is its focus on AI-powered autonomy and computer vision. These capabilities will enable the robots to perform complex tasks with minimal human intervention and increasing efficiency.

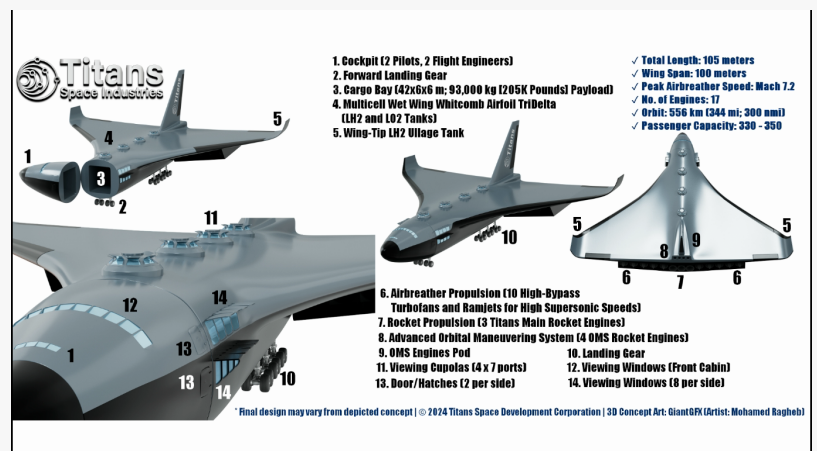
Titans Space Industries is partnering with the startup and considering funding them throughout their development phases. This reflects TSI's commitment to support innovation and its strategic approach to "build or buy" decisions, ensuring access to the most advanced technologies for its ambitious space endeavors.

The increasing amount of space junk poses a significant threat to current and future space activities. The risk of the Kessler Syndrome, a scenario where collisions between space objects create a cascade of debris, further exacerbates this issue. TSI and the robotics startup partnership aim to develop solutions to mitigate these risks and ensure the long-term sustainability of space.

"The strategic importance of this partnership cannot be overstated," said Neal Lachman, CEO and Chief of Spacecraft Design at Titans Space Industries. "We need robotics for our on-orbit missions and operations. Furthermore, we are committed to not only building the future of space infrastructure but also ensuring its sustainability. Addressing the space junk problem is paramount to safeguarding humanity's continued safe and frequent access to space. We found a



Titans Spaceplane and Titans OrbitalPort Space Station in Low-Earth Orbit



Titans Spaceplane Design Overview

strategic partner in this promising robotics startup with revolutionary solutions and a leadership with proven track records. We are extremely excited to work with them."

Doug Kohl, COO of Titans Space Industries, emphasized the operational importance of the robotic systems: "These robotic solutions will revolutionize our operations in space. They will enhance our ability to assemble and maintain space assets, remove debris and junk, and support lunar activities, making our operations more efficient and cost-effective."

Chris Sembroski, Chief Astronaut at Titans Space Industries, highlighted the role of robotics in augmenting the human workforce: "Robotics is essential to augmenting our human workforce and going beyond our current reach in space. This advanced robotic technology will be a game-changer, enabling us to tackle complex tasks and explore new frontiers."

Franklin Ratliff, CTO of Titans Space Industries, spoke to the technological aspects of the collaboration: "This partnership will leverage cutting-edge advancements in AI and robotics, developing solutions that are both innovative and practical."

Vaseema Hussain MCIAT, Director of Space Sustainability at Titans Space Industries, addressed the critical issue of space sustainability: "Space sustainability is not just an option; it's a necessity. This partnership demonstrates our commitment to responsible space exploration and development. By addressing the space junk problem, we are ensuring that future generations can also benefit from space."

Marcus Beaufort, Director of Business & R&D Strategy at Titans Space Industries, added, "This collaboration is a key part of our strategy to drive innovation and develop the technologies needed for a thriving space economy. We believe that robotics and AI will play a crucial role and have the potential to transform space operations."

"We are committed to a thorough and swift development process," said Eric Kolte, Chief



Strategic Partnership - Grappling



Strategic Partnership - Capture

Development Officer at Titans Space Industries. "Our dedication to seeing this project through from inception to deployment is unwavering. We believe in the transformative power of this technology and are eager to make it a reality."

The joint vision of TSI and the robotics startup is to revolutionize space operations, making them more efficient, cost-effective, and scalable. By combining their respective strengths, they aim to accelerate the development of key technologies that will pave the way for a sustainable and prosperous future in space. This partnership will also lead to developing the technology needed to support concepts such as multifunctional utility trucks for lunar and Martian terrain, as well as bridge the gap between human and AI capabilities in space robotics, as outlined in previous white papers published by TSI.

About Titans Space Industries

After more than three years of strategic development and positioning, Titans Space Industries is set to disrupt the commercial space sector. TSI will leverage its revolutionary Titans spaceplanes and end-to-end multi-vehicle cis-lunar transportation system to establish a unique, dominant infrastructure and presence in space and on Earth's Moon.

With a combined 600 years of experience in business and aerospace, Titan Space Industries' founding team boasts an unparalleled depth of knowledge and expertise. This seasoned leadership brings together the sharpest minds in both fields, ensuring strategic brilliance and operational excellence. Further amplifying this expertise, the company's development of factories and facilities throughout the U.S. in 2025 will be under the leadership of a senior management team with a combined 1,000 years in aerospace, including director roles of the NASA Space Shuttle program and ISS missions. This wealth of hands-on experience guarantees the highest standards in manufacturing, safety, and innovation for all Titans Space projects.

To download the Investment Thesis, titled Titans Space Industries: Revolutionizing Cis-Lunar Transportation - A \$25B Valuation Driven by UHNWI Astronauts, please visit

<https://titansspace.com/tsi-investment/> or for a preview:

<https://www.linkedin.com/pulse/investment-thesis-titans-space-industries-cis-lunar-neal-lachman-xbj8e/>

Disrupting the Space Paradigm: Leading the Space Economy

The commercial space industry is ripe for disruption. Legacy institutions and established companies are often burdened by outdated infrastructure, bureaucratic processes, and significant liabilities.

TSI's spaceplanes and multi-vehicle cis-lunar transportation system will offer significantly faster, safer, and cheaper access to space, capturing a substantial share of the transportation market, including cargo delivery, satellite and spacecraft deployment, and crew transport. This agility

allows for rapid adaptation to market demands and mission-specific requirements.

TSI, operating with a clean slate, is uniquely positioned to:

- Accelerate Space Development: Implementing agile development methodologies and streamlined operations, TSI will significantly reduce the time and cost associated with space missions, surpassing the efficiency of traditional models.
- Offer Unprecedented Space Access: By offering cost-effective and frequent access to Low Earth Orbit (LEO) through its spaceplane technology, TSI will lower the barriers to entry for commercial and scientific endeavors, allowing innovation and market expansion.
- Establish a New Standard: TSI's holistic, end-to-end approach, integrating transportation, resource extraction, and tourism, sets a new standard for efficiency and profitability in the Cis-lunar space sector, challenging the status quo.

TSI's business model is designed for rapid monetization and diversified revenue streams, including space tourism, logistics, government contracts, and space launches. The company is committed to establishing a dominant position in the space economy through its proprietary technology and strategic asset acquisition.

To access the Investment Thesis, titled Titans Space Industries: Revolutionizing Cis-Lunar Transportation - A \$25B Valuation Driven by UHNWI Astronauts, please visit <https://titansspace.com/tsi-investment/>.

Further Information

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- See video 2: Module Grappling: <https://youtu.be/c-FoCzXu1XM>
- See video 3: Free-Flyer Capture: <https://youtu.be/ea9siyadljo>
- Titans Space Industries FAQs: <https://titansspace.com/faq/>

Space Tourism & Exploration

- Space Tourism Overview: <https://titansspace.com/titans-space-tourism/>
- Chief Astronaut, Chris "Hanks" Sembroski: <https://titansspace.com/chief-astronaut/>
- Inaugural Astronauts: <https://titansspace.com/inaugural-astronauts/>
- LEO Space Tourism (video): https://youtu.be/_vluMF_4K3s
- EarthLoop Orbital Cruise (five-hour mission): <https://titansspace.com/earthloop/>
- EarthLoop (video): <https://youtu.be/MbQT4NRjwNs>
- OrbitalLoop Three-Day Superyacht Experience: <https://titansspace.com/orbitalloop/>
- OrbitalLoop (video): <https://youtu.be/EEoL-IRwKow>
- LEO Space Hotel: <https://titansspace.com/leo-orbitalport-space-station/>
- Lunar Orbital Hotel: <https://titansspace.com/lunar-orbital-hotel/>
- Titania Lunar Resort: <https://titansspace.com/titania-lunar-resort/>
- Titans Astronauts: <https://titansspace.com/titans-astronauts/>
- Titans Astronauts (video): <https://youtu.be/M7jBgFO7vFE>

- Titans Space Society: <https://titansspace.com/titans-space-society/>

Technology

- Titans Spaceplanes: <https://titansspace.com/titans-spaceplanes/>

- Titans Spaceplanes (video): <https://youtu.be/1vOzgahx8us>

- Titans Engines Systems: <https://titansspace.com/titans-engines-systems/>

Library

- White Papers & Analyses: <https://titansspace.com/library-analyses-white-papers/>

Contact Details

Please contact us through the online form at: <https://titansspace.com/business-development/>

About the Titans Astronauts Corps

Titans Space Industries has established the “Titans Astronauts” program, an exclusive, subscription-based membership granting unlimited access to future space missions and related experiences, including frequent lunar visits. With a target membership ranging from 1,000 to 2,000 individuals joining the program through 2030, each paying \$25 million over a six-quarter period, this program will generate a substantial (lump sum, non-recurring) revenue stream and create a community of dedicated space enthusiasts contributing to the long-term sustainability of TSI’s space tourism initiatives.

<https://titansspace.com/titans-astronauts/>

<https://titansspace.com/astronauts-contact/>

About the Inaugural Astronauts and Titans Space Ambassadors

The inaugural flight of the Titans Spaceplane in 2029 represents a revolutionary moment in space exploration. We are honored to have secured the participation of a distinguished cohort of Inaugural Astronauts, including seasoned space professionals, former astronauts, influential communicators, and prominent figures from various fields. Their presence and ambassadorship underscore the significance of this milestone and signal the beginning of a new era in accessible and transformative space exploration.

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