



# RTOS, one giant leap in spacecraft innovation

RTOS reveals its highly advanced spacecraft, the first in aerospace history capable of serving all Earth Orbits, Lunar and Planetary missions, while taking off from and landing on runways.

## For Immediate Release

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RTOS, a Texas company, has just revealed the aerospace industry's most innovative spacecraft platform, capable of serving both commercial and governmental space missions at a fraction of today's vertical space launch cost. RTOS is 100% reusable and will be the safest and most reliable spacecraft ever conceived. With zero waste in spacecraft hardware, RTOS uses 50% less fuel and eliminates 70% of the explosive toxic fumes typical in vertical launches. RTOS will carry both payload and astronauts to earth orbits and the lunar surface on short notice.

RTOS requires no booster rockets or external fuel tanks, and does not discard any hardware in space, nor does it dump anything in the oceans. RTOS is the most efficient, cost-effective and environmentally friendly spacecraft ever planned. RTOS is the beginning of a paradigm shift in spacecraft, producing a highly profitable space business. RTOS can offer daily orbital missions.

"RTOS will lead the United States' spacecraft innovation in aeronautics, propulsion, composites, AI and energy sources with unparalleled safety, reliability, efficiency and profitability in both commercial and defense missions. RTOS will have a dominant position in the Space Economy, expected to reach \$1.8T in just a decade," said Ray Ashton, Founder, CEO and CTO of RTOS.

RTOS, through its own space-pioneering and proprietary innovations, some rooted in NASA's many decades of R&D, will deliver a spacecraft that also utilizes the most advanced AI and microchips. These play a major role in RTOS' multiple levels of safe operation, critical system redundancies and capabilities, ensuring the expected outcomes with every RTOS space mission.

"We have the R&D resources and the expertise to support RTOS' advanced material science and engineering requirements and are excited to be part of RTOS' pioneering project," said Dr. Vijay K. Vasudevan, Professor of Material Science and Engineering, University of North Texas.

RTOS is pushing the limits of NASA R&D in space exploration, advanced composites, propulsion systems and aeronautics. RTOS is leading the space innovation race, with many first to market.

"We are home to a unique hypersonic wind tunnel facility with advanced diagnostic capabilities. We are excited to have been selected by RTOS to perform hypersonic wind tunnel testing for their new platform," said Dr. Chris Combs, Director of Hypersonic Wind Tunnel Laboratory, University of Texas, San Antonio.

RTOS is currently evaluating a number of global corporations as strategic partners who are leaders in space systems, AI and advanced microchips. These candidates are based in the United States, Europe and other US-allied countries. Companies or organizations associated with NASA, ESA and JAXA would certainly benefit from RTOS. They may also be suppliers, with opportunities to become RTOS investors, while benefiting their own shareholders as well.

RTOS' business plans call for direct employment of more than 1000 professional and technical workers in North Texas in the coming years. RTOS will expand Texas' leadership in aerospace innovation, R&D, and Precision Manufacturing. RTOS is also working with various state and local groups within the State of Texas including the Economic Development and State Workforce who are excited about RTOS' aggressive business and employment growth plans. RTOS will make Texas the world capital of Space Innovation, Precision Manufacturing and Space Economy.

#### **About RTOS:**

RTOS (Runway to Orbit Spacecraft), registered with the USPTO, pronounced "are-toss", is a privately owned company that officially incorporated in Texas in 2017 as AFFECTS SAT Corp. RTOS' roots go back to Feb. 1, 2003, when the late Space Shuttle Columbia disintegrated over the skies of Texas as it re-entered Earth's atmosphere. RTOS' Founder, Ray Ashton, committed on that same day to building the safest, most reliable, and efficient spacecraft known to mankind. RTOS is the world's first adaptable orbital, lunar and planetary spacecraft that takes off and lands from regular runways, requiring minimal accommodations at an airport.

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