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XTI Aerospace Completes Global Finite Element Model for Latest TriFan 600 Configuration

Completion of GFEM Meets a Key Product and Engineering Q1 Milestone

ENGLEWOOD, Colo., April 3, 2025 /PRNewswire/ -- XTI Aerospace, Inc. (NASDAQ: XTIA) ("XTI" or the "Company"), a pioneer in VTOL and powered-lift aircraft solutions, today announced the Q1 completion of its Global Finite Element Model (GFEM) for its latest TriFan 600 configuration, achieving a key 2025 first quarter product and engineering milestone announced in a prior press release. This achievement advances the design team's ability to perform further structural integrity and load distribution analysis.



The GFEM represents the next level of detail for the Digital Mock-up (DMU), or "digital twin," within the highly detailed CATIA 3DX computer aided design model of the TriFan 600. The GFEM's completion enables the team to further analyze the underlying structural integrity and load paths in the aircraft before finalizing the Detailed Finite Element Model. Figure 1 depicts the GFEM update.

"The DMU and GFEM allows us to do detailed analysis of our design in terms of structure and mass properties," said Dave Ambrose, VP of Engineering at XTI Aircraft. "Our structures team is eager to begin the next phase of validation and modification of our internal structures of the aircraft. Just as the CFD (computational fluid dynamics) informs the aerodynamic performance of the aircraft, the GFEM enables a deeper understanding of structural integrity and load distribution."

"The completion of the GFEM is an important step in advancing the digital analysis of the

TriFan 600," said Scott Pomeroy, Chairman and CEO of XTI Aerospace. "Our engineering team is driving forward with detailed design refinements—focusing on structures, load paths, weights, and part optimization—all while maintaining commitment to safety and performance."

In Q1 2025, XTI successfully completed all six product and engineering milestones which were disclosed near the beginning of the quarter. The completions began with the downwash/outwash study and are leading up to the launch of the "Sparrow" subscale working model in early Q2.

Q1 2025 Milestones Completed

- Downwash / Outwash Study – Analyze airflows generated by the aircraft during vertical takeoff and landing to evaluate safety and performance
- Type Certification Application – Formally apply to the FAA for type certification of the TriFan 600
- Engine Air Inlets and Exhaust – Optimize air intake and exhaust design to enhance performance and efficiency of the propulsion system
- Fuel System Design – Optimize fuel system design to reduce unusable fuel and increase fuel capacity
- Flight Deck Mockup Design – Develop a flight deck human factors mockup to design and evaluate and optimize ergonomics, pilot controls, and vision panel
- Global Finite Element Model (GFEM) of the latest configuration – Update the comprehensive structural model to evaluate and optimize the aircraft's strength and load paths under various loading conditions

About XTI Aerospace, Inc.

XTI Aerospace (XTIAerospace.com) (Nasdaq: XTIA) is the parent company of XTI Aircraft Company, an aviation business based near Denver, Colorado, currently developing the TriFan 600, a fixed-wing business aircraft designed to have the vertical takeoff and landing (VTOL) capability of a helicopter, speeds of 345 mph and a range of 700 miles, creating an entirely new category – the vertical lift crossover airplane (VLCA). Additionally, the Inpixon (inpixon.com) business unit of XTI Aerospace is a leader in real-time location systems (RTLS) technology with customers around the world who use the Company's location intelligence solutions in factories and other industrial facilities to help optimize operations, increase productivity, and enhance safety. For more information about XTI Aerospace, please visit XTIAerospace.com and HangerXStudios.com (aviation innovation podcast), and follow the company on [LinkedIn](#), [Instagram](#), [X](#), and [YouTube](#).

Cautionary Statement Regarding Forward-Looking Statements

This press release contains certain "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act, and Section 21E of the Exchange Act. All statements other than statements of historical fact contained in this press release, including without limitation, statements about the products under development by XTI, the advantages of XTI's technology, and XTI's customers, plans and strategies are forward-looking statements.

Some of these forward-looking statements can be identified by the use of forward-looking

words, including "believe," "continue," "could," "would," "will," "estimate," "expect," "intend," "plan," "target," "projects," or the negatives of these terms or variations of them or similar expressions. All forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward-looking statements. All forward-looking statements are based upon estimates, forecasts, and assumptions that, while considered reasonable by XTI Aerospace and its management, are inherently uncertain, and many factors may cause the actual results to differ materially from current expectations. XTI undertakes no obligation to revise any forward-looking statements in order to reflect events or circumstances that might subsequently arise. Readers are urged to carefully review and consider the risk factors discussed from time to time in XTI's filings with the SEC, including those factors discussed under the caption "Risk Factors" in its most recent annual report on Form 10-K, filed with the SEC on April 16, 2024, and in subsequent reports filed with or furnished to the SEC.

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