

# HEKA Launches Next-Gen Aerospace & Defense Solutions for Rapid Mission Deployment

*HEKA accelerates aerospace and defense innovation, cutting development timelines from years to days while meeting the industry's highest standards.*

MELBOURNE, FL, UNITED STATES, August 18, 2025 /EINPresswire.com/ -- HEKA, a leader in

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*Stephen Stilwell*

aerospace, defense, and unmanned systems technology, announces a major expansion of its product portfolio, introducing mission-ready solutions designed to redefine speed, precision, and adaptability in complex operational environments.

From advanced digital twin simulation to AI-enhanced navigation and rugged energy systems, HEKA's internally developed, ITAR-compliant technologies compress traditional multi-year development timelines into days —

enabling defense and aerospace customers to achieve rapid innovation without compromising quality or safety.

"Our mission has always been to deliver superior technology faster than anyone else in the industry," said Stephen Stilwell, Flight Simulation Software Engineer & Project Manager at HEKA. "By integrating cutting-edge engineering disciplines with an agile, customer-focused approach, we help partners move from concept to mission-ready performance with unmatched speed and reliability."

HEKA's expanded capabilities include:

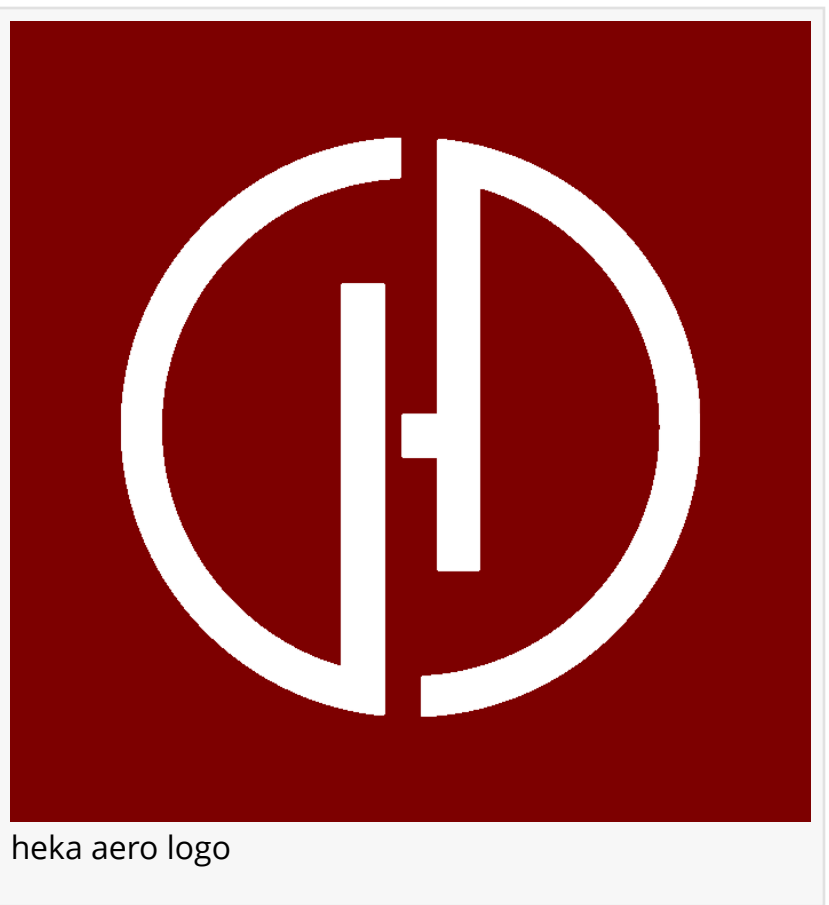
1. HekaLink – A Digital Twin and 6-DOF Flight Controls Design IDE enabling real-time simulation, hardware-in-the-loop testing, and operational flight program generation.
2. Voltai Energy Solutions – Aviation-grade battery management systems with multi-chemistry support, scalable configurations up to 240V, and multi-protocol communications.
3. Nautilus DRIMU – AI-powered dead reckoning inertial measurement unit for GPS-denied environments, leveraging advanced sensor fusion and neural network calibration.
4. HEKOS – A safety-critical real-time operating system for mission-critical aerospace and defense

applications.

5. RF Lamprey – High-performance RF communications and telemetry platform for secure, long-range operations.

6. Next-Generation Propulsion Systems – Including gimbaled fan thrust vectoring and dual-axis tilt-rotor technologies for enhanced maneuverability and efficiency.

HEKA's approach blends expertise in systems, software, electrical, mechanical, and aerospace engineering to meet rigorous standards such as DO-178, DO-254, and MIL-STD-810. The company develops all solutions through independent research and development, ensuring full IP ownership and NDAA compliance.



HEKA's past performance includes work with the U.S. Army, Air Force, Joby Aviation, GE, and DIU Hypersonics, as well as innovative unmanned maritime and aerial systems for defense and commercial sectors.

"As the industry faces growing demands for agility and adaptability, HEKA is ready to deliver the technology edge our partners need," Stilwell added. "We're not just building products — we're enabling the next generation of aerospace and defense capabilities."

#### About HEKA

HEKA is a Florida-based technology company specializing in advanced aerospace, defense, and unmanned systems. The company's internally developed solutions span C5ISR, unmanned aerial systems, hypersonics, and manned aircraft systems. HEKA's mission is to deliver superior technology in an agile, customer-centric fashion, bringing products to market faster while meeting the most demanding industry standards. Learn more at <https://heka.works>.

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