Doroni Aerospace Partners with TLG Aerospace to Advance Engineering and Certification for the H1-X Personal eVTOL

Leading Aviation Startup and Aerospace Engineering Firm to Work Together to Complete Technical and Regulatory Milestones



Doroni Aerospace x TLG Aerospace Engineering

DANIA BEACH, FL, UNITED STATES, September 29, 2026 / EINPresswire.com/ -- Doroni Aerospace, a trailblazing American flying car and eVTOL company, today announced a strategic engineering partnership with TLG Aerospace, LLC, an industry-leading aerospace engineering firm based in Seattle, Washington.

The alliance combines Doroni's cutting-edge vehicle design with TLG Aerospace's deep engineering analysis and certification expertise to accelerate the Doroni H1-X toward full-scale production, ground testing, and FAA airworthiness alignment.

> "Our mission with the H1-X is to make safe, sustainable, and personal flight an everyday reality"
> *Doron Merdinger, Founder & CEO of Doroni Aerospace Inc.*

Designed for residential garage integration and intuitive everyday personal flight, the Doroni H1-X features a tandem wing architecture, fully enclosed ducted fan propulsion, and proprietary SOUL AI™ digital co-pilot system. Under the agreement, TLG Aerospace will collaborate directly with Doroni's internal engineering team on full-vehicle design, structural loads analysis, finite element analysis (FEA), high-fidelity computational fluid dynamics (CFD), and flight mechanics.

Combining Visionary Air Mobility with Proven Aerospace Engineering

By combining Doroni's vehicle platform with TLG Aerospace's engineering capabilities—which include in-house FAA Designated Engineering Representatives (DERs) specializing in flight performance and handling qualities, loads, structures, and aeroelasticity—the project

establishes a rigorous analysis framework by which to guide the certification process under the MOSAIC regulatory framework. This approach validates the H1-X airframe's strength-to-weight ratio and transition flight physics prior to major physical build phases.

"Our mission with the H1-X is to make safe, sustainable, and personal flight an everyday reality," said Doron Merdinger, Founder & CEO of Doroni Aerospace Inc. "As we move rapidly toward advanced flight testing, joining forces with Steve and the TLG Aerospace team ensures our airframe and flight models meet the highest aerospace standards. TLG's technical analysis capabilities provide the ideal complement to our engineering team as we prepare the H1-X for market."

"The H1-X represents a compelling step forward for the personal air mobility sector," said Steve Muenzberg, Founder & President of TLG Aerospace, LLC. "Doroni has developed an impressive baseline vehicle architecture. Our team is excited to apply our structural, aerodynamic, and certification expertise to refine the H1-X model and help Doroni build a clear, streamlined path toward certification under the new MOSAIC consensus based standards.

Joint Project Focus Areas
The engineering collaboration centers on critical technical and regulatory milestones:
- Configuration Engineering: Ensuring that the design will be safe and enjoyable to fly, with a clear path to meeting product and certification requirements.
- Structural Integrity & Airframe Loads: Performing comprehensive loads modeling to maximize the structural strength and payload efficiency of the carbon-fiber airframe.
- Aerodynamic & Transition Efficiency: Applying advanced CFD analysis to optimize hover lift, cruise aerodynamics, and energy consumption across all flight regimes.
- Compliance & DER Support: Structuring engineering datasets, stress reports, and test plans to align directly with consensus standards under the FAA MOSAIC program.

About Doroni Aerospace Inc.
Doroni Aerospace Inc. is a Dania Beach, Florida-based advanced air mobility company dedicated to making air travel personal through safe, sustainable, and intuitive electric flying vehicles. Founded in 2016 by entrepreneur Doron Merdinger, Doroni combines cutting-edge aerodynamics, proprietary flight software, and redundant safety architectures in its flagship vehicle, the H1-X, to make personal flight accessible. For more information, visit www.doroni.io.

About TLG Aerospace, LLC
TLG Aerospace, LLC is a full-vehicle aerospace engineering services firm based in Seattle, Washington. Specializing in aerodynamics, structural loads, flutter analysis, stress engineering, and flight test support, TLG works with aerospace innovators worldwide to bring aircraft programs from early concept through FAA flight certification. For more information, visit www.tlgaerospace.com.

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