



ARCHER TO BUILD NEXT WAVE OF AVIATION AI TECHNOLOGY WITH NVIDIA IGX THOR

News / Manufacturer



Archer Aviation announced plans to develop and deploy the next generation of artificial intelligence technologies for aviation using the [NVIDIA IGX Thor](#) platform. The aviation space is a high-impact domain for Physical AI, particularly to advance critical capabilities in aircraft safety, airspace integration and autonomy-ready systems. Archer plans to debut its NVIDIA integration at its recently acquired Hawthorne airport in central Los Angeles, which is expected to be its operational hub for its planned LA air taxi network and a test bed for its AI-powered aviation technologies.

Companies have been working together since early 2025, with Archer planning to integrate [NVIDIA IGX Thor](#), the company's most powerful safety-capable AI computing module, into future iterations of its aircraft programs. NVIDIA IGX Thor is built to enable high-reliability, real-time onboard computing for safety-critical environments, supporting advanced perception, decision-making and predictive operations.

Adam Goldstein, Archer's Founder and CEO commented: "CES has always been a launchpad for technologies that reshape industries, so we're proud to announce our AI collaboration with NVIDIA here. NVIDIA's AI compute capabilities and software stack give us the foundation to accelerate toward safer, smarter aircraft systems and modernize how aviation interfaces with the world's airspace."

Archer aims to power the next wave of AI technology in aviation, with a focus on three core areas:

- **Enhancing Pilot Safety & Predictive Awareness:** Leveraging NVIDIA's high-throughput edge computing to sense the environment, while processing flight-path data in real-time, giving pilots earlier, clearer and more actionable insight.
- **Seamless Airspace Integration:** Developing AI systems that help bring current airspace management systems into the 21st century, allowing aircraft to safely integrate into today's complex airspace, including improved routing logic and dynamic traffic-aware flight planning.
- **Autonomy-Ready Flight Controls:** Pairing NVIDIA IGX Thor with Archer's proprietary avionics and control software to build a next-gen computing architecture capable of supporting future autonomous and semi-autonomous operations.

Initial integration of NVIDIA IGX Thor into Archer's development pipeline is already well underway, with broader applications expected across manufacturing, aircraft fleet operations and pilot training. The collaboration builds on Archer's expanding ecosystem of AI-focused partnerships.

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