



An IT specialist at the John A. Volpe National Transportation Systems Center flies a Boeing 737-800NG simulator with Aurora's ALIAS technology demonstration system as his co-pilot.

Robotic Co-Pilot Autonomously Flies and Lands a Simulated Boeing 737

Aurora's ALIAS System Performs Various Flight Scenarios, Further Demonstrates Capabilities

Manassas, Virginia, May 16, 2017 – Aurora Flight Sciences' work on the Defense Advanced Research Projects Agency (DARPA)'s Aircrew Labor In-Cockpit Automation System (ALIAS) program has further demonstrated its automated flight capabilities with various successful flight scenarios in a Boeing 737 simulator. These accomplishments build on Aurora's successful installation and testing of ALIAS components on a Diamond DA42, Cessna 208 Caravan, UH-1 Iroquois, and DHC-2 Beaver aircraft.

Aurora's ALIAS technology demonstration system is designed to function as a second pilot in a two-crew aircraft, enabling reduced crew operations while ensuring that aircraft performance and mission success are maintained or improved. DARPA's published vision for ALIAS is "a tailorable, drop-in, removable kit that would promote the addition of high levels of automation into existing aircraft, enabling operation with reduced onboard crew."

Demonstrated on a Boeing 737-800NG simulator at the U.S. Department of Transportation's John A. Volpe National Transportation Systems Center in Cambridge, Massachusetts, ALIAS showcased its ability to utilize the existing 737 auto-landing system to autonomously land the aircraft safely in the event of pilot incapacitation. Aurora has also demonstrated ALIAS numerous times on aircraft in flight, most recently on the DA42. In the demonstration, ALIAS actualized DA42 cockpit procedures in real time and, overseen by an onboard safety pilot, conducted a fully automated landing at a simulated site at 3,000 ft. in altitude.

"Having successfully demonstrated on a variety of aircraft, ALIAS has proven its versatile automated flight capabilities," said John Wissler, Aurora's Vice President of Research and Development. "As we move towards fully automated flight from take-off to landing, we can reliably say that we have developed an automation system that enables significant reduction of crew workload."

Aurora's ALIAS solution includes the use of in-cockpit machine vision, robotic components to actuate the flight controls, an advanced tablet-based user interface, speech recognition and synthesis, and a knowledge acquisition process that facilitates transition of the automation system to another aircraft within a 30-day period. Aurora is also working on a version of the system without robotic actuation that instead aims to support the pilot by tracking aircraft physical, procedural, and mission states, increasing safety by actively updating pilot situational awareness. To learn more about Aurora and the ALIAS program, visit www.aurora.aero.

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About Aurora Flight Sciences:

Aurora Flight Sciences is an innovative technology company which strives to create smarter aircraft through the development of versatile and intuitive autonomous systems. Operating at the intersection of technology and robotic aviation, Aurora leverages the power of autonomy to make manned and unmanned flight safer and more efficient. Headquartered in Manassas, Virginia, Aurora operates production plants in Bridgeport, West Virginia and Columbus, Mississippi, has Research and Development Centers in Cambridge, Massachusetts, Dayton, Ohio and Mountain View, California, and a European office, Aurora Swiss Aerospace, located in Luzern, Switzerland. To view recent press releases and more about Aurora please visit our website at www.aurora.aero.

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