

PRESS RELEASE
For Immediate Release

GL Studio powering HMI Development for Merlin Pilot Autonomy System

Merlin will use GL Studio to develop interactive autonomy centric displays

Orlando, FL (September 17, 2025) – In a groundbreaking step toward the future of autonomous aviation, [Merlin](#) will leverage DiSTI Corporation's GL Studio to develop interactive moving map displays for its autonomy system: the Merlin Pilot.

The Merlin Pilot is a next-generation AI-powered system designed to manage all phases of flight across both military and civilian operations. From maintaining stability and navigation to executing mission-critical adjustments in severe weather or in response to emerging threats, the Merlin Pilot leverages advanced AI decision-making to ensure aircraft performance, safety, and mission effectiveness. With its ability to understand airspace rules, coordinate with air traffic control, and adapt to real-time contingencies, the Merlin Pilot is setting a new standard for assured autonomy in aviation.

GL Studio is being used to build an autonomy centric human-machine interface that enables crew members to interact with the Merlin Pilot system via touchscreen and in conjunction with natural language processing. The interface will showcase a suite of interactive capabilities, including:

- A real-time 2D & 3D moving map display with various situational awareness overlays
- Multi-touch input functionality and soft key action buttons
- Integration with the high assurance Merlin Pilot Vehicle Management System (VMS)
- Visualization and interaction with audio input and outputs with natural language processing
- Interactive visualization of weather, terrain, and target data
- Dynamic computation and display of flight paths, including rerouting for weather and obstacles

"Our assured autonomy system is designed to operate both onboard flight decks and remotely, with the goal of supporting crew workload reduction to enhance safety. GL Studio's safety-critical software and DO-178C DAL A development, along with its ability to accelerate rapid prototyping and validation in our Virtual Test Environment, aligns directly with Merlin's mission to deliver assured autonomy capabilities that make aerospace operations safer and more effective," stated Tim Burns, Chief Technology Officer of Merlin.

"GL Studio's proven ability to deliver real-time, safety-critical interfaces aligns with Merlin's assured autonomy initiatives," said Chris Giordano, VP of UX/UI Technology at DiSTI. "We are proud to support Merlin in their mission to revolutionize aviation with AI-powered autonomy."

For more information about Merlin, visit <https://merlinlabs.com>.

For individuals seeking to learn more about getting started with GL Studio or other software development solutions provided by DiSTI, please reach out to sales@disti.com

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About DiSTI Corporation

The DiSTI Corporation is the world's leading graphical user interface software provider. Our flagship product, GL Studio, delivers advanced high-performance 3D user interfaces to the aerospace and automotive industries. Leading global manufacturers such as Jaguar Land Rover, Hyundai MOBIS, Garmin, Boeing, NASA, and Lockheed Martin choose GL Studio for its performance, fidelity, and reliability in interface development and deployment. Whether for avionics, instrument clusters, infotainment systems, or flight simulators, GL Studio exceeds the developer's workflow and runtime performance demands.

Visit <https://disti.com> to learn more.

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