

Avionics Development Tools & Solutions



GL Studio SC HMI Development Tool

- From prototype on desktop to Embedded Avionics in the same design file format with the same generated C++ Code.
- Modern object-oriented design architecture and code generation for rapid development and deployment.
- Modular development process for ease of maintenance over the long term and to avoid monolithic architecture.



Safety-Critical Code Generator

- Plug-in to GL Studio SC Editor
- Qualifiable to DO-330 TQL-1

Safety-Critical Runtime Library

- GL Studio has been ported to over 80 target systems.
 - Real-time operating system agnostic (Integrity, DeOS, PikeOS, VxWorks, LynxOS, etc.).
 - Hardware agnostic (AMD, ARM, TI, NXP, etc.).
- Best runtime performance available today.
- Certifiable to DO-178C DAL A



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Hill Helicopters

Hill Helicopters, a British helicopter company, adopted GL Studio, as the company's HMI Software development tool, in the production of their avionics suite for luxury private helicopter models HX50 and HC50.

GL Studio provides an advanced toolset that has equipped Hill Helicopters to build an elegant user experience for the Visual Flight Rules (VFR) helicopter. The solution has enabled Hill Helicopters to link thirdparty systems such as the radio, intercom, GPS, and transponder with the User Interface application.



Boeing T-7A Red Hawk

The Boeing T-7A Red Hawk is an all-new advanced pilot training system designed specifically for the U.S. Air Force training mission. It includes trainer aircraft, ground-based training, and support–designed together from the ground up.

GL Studio HMI allows for the rapid prototyping of complex avionics displays for seamless interaction in training simulators and production aircraft. The aircraft is one of the two Boeing-funded prototypes built for the U.S. Air Force T-7A Advanced Pilot Training System and modified into the EMD design after the first flight test campaign.



Boom X-B1

Boom selected GL Studio as the Human Machine Interface (HMI) software development tool of choice for its supersonic demonstrator program. The Coloradobased company is using GL Studio to develop the embedded avionics in its supersonic demonstrator XB-1, as well as the prototyping, training simulator, and ground telemetry control room for the aircraft.

XB-1 is Boom's demonstrator airplane for Overture and a critical step toward mainstream supersonic travel. XB-1 will prove key technologies for safe, efficient, and sustainable supersonic travel for customers.



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