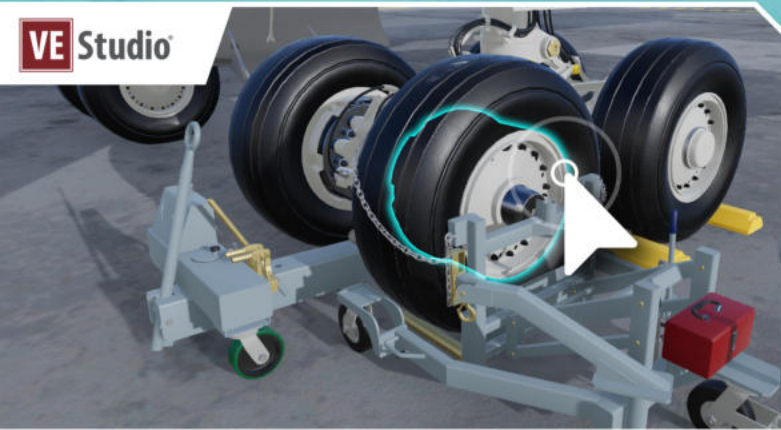


# Aviation

DiSTI provides quality experiences for training and virtual instrumentation



DiSTI is a trusted solutions provider for companies specializing in Aviation. Our lines of services for both military and commercial customers help clients improve the effectiveness of skills transfer, increase knowledge retention, and provide experiential training in real-time, data-driven applications.

Our **VE Studio**®, virtual maintenance training development platform promotes higher engagement through interaction, while our **GL Studio**® HMI software development tools allows for the rapid prototyping of complex avionics displays for seamless interaction in to training simulators and production aircraft.

- » Full Mission Displays
- » Flight Simulators
- » Part Task Trainers
- » Aircraft Instrumentation Prototyping
- » Aircraft Instrumentation Avionics
- » Moving Map Simulators
- » 2D and 3D Virtual Cockpits
- » Virtual Instrumentation

## Highest Quality Avionics, Instrumentation and Controls

Those seeking Safety-Critical development in Avionic need look no further than **GL Studio**®. As an HMI software development tool **GL Studio**® was developed for DO-178C up to DAL A. Global industry leaders are utilizing **GL Studio**® for aircraft and spacecraft flying around the world.

**GL Studio**® enables the real-time creation of interactive 2D and 3D geometry through a WYSIWYG environment, alleviating the need to write cumbersome low-level graphical code. Geometry creation is performed using intuitive tools for:

 Drawing

 Ordering

 Grouping

 Texturing

## Virtual Instrumentation

Create virtual instrumentation to meet your design specifications and application objectives. Facilitates a variety of simulation and training devices, including:

- » Rapid virtual prototypes
- » Repeater panels
- » Embedded displays
- » Instructor training aids
- » Instructor operator stations
- » Desktop, part-task, and full mission trainers







## Simulated Cockpits and Embedded Safety-Critical Avionics

Replicate cockpit instrumentation and MFDs at a fraction of the cost of procuring actual flight hardware for instrumentation full motion trainers, flight training devices and reconfigurable cockpit trainers.

## Symbology and HUDs

Create heads-up-displays and other complex symbology that seamlessly integrate with third-party scene graphs and overlay on the scene.



## Virtual Maintenance Training

The DiSTI Corporation has been prime, or subcontractor to some of the largest global aviation programs. Including the following:

- |         |         |            |
|---------|---------|------------|
| » F-35  | » F-15  | » T-45C    |
| » UH-72 | » CH-47 | » PC-12    |
| » F-18  | » P-8A  | » Bell 412 |
| » F-16  | » MQ-1C | » P-3      |

## Scene Graph Integration

Build cockpit and instrumentation content once and integrate into any number of OpenGL or DirectX scene graphs, including:

- |                              |                                   |
|------------------------------|-----------------------------------|
| » Unity                      | » Presagis Vega Prime             |
| » Unreal                     | » Rockwell Collins EP             |
| » Lockheed Martin Prepar3D   | » OpenSceneGraph                  |
| » MAK VR-Vantage / VE-Engage | » Genesis RT/RTX                  |
|                              | » Bohemia Interactive Simulations |



## Park Task Trainers

Reproduce complete aircraft cockpit layouts into touchscreen displays enabling lower cost training.

## Instructor Operator Stations (IOS)

Repurpose graphical content into IOS, repeater panels, and after-action-review stations for maximum reuse benefits.



# **DiSTI<sup>®</sup>**

## Have questions?

**Please reach out through the information below**



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