Bloomy Announces Aircraft Simulation Systems for HIL Test of Electronic Control Systems


WINDSOR, Conn. (PRWEB) April 23, 2019 -- Bloomy Controls, Inc. (Bloomy) today announced the availability of three new simulation systems for HIL test of electronic control systems, along with the Bloomy Simulation Reference System. The Bloomy FADEC/EEC Test Platform, the Bloomy Flight Control System Test Platform and the Bloomy Environmental Control Test Platform are built on the Bloomy Simulation Reference System and use commercial-off-the-shelf (COTS) technology to accelerate open- and closed-loop test for these applications.

With the increasing complexity of airborne electronic controls, design and test engineers of commercial and military aircraft can no longer afford the time or expense of developing custom, proprietary simulation systems for critical electronic control systems. Because Bloomy’s new simulation systems are based on its open and standard Simulation Reference System, airframers and system suppliers can jump start their test system development efforts and reduce cost and development time, while still retaining the ability to add their own proprietary knowledge and expertise to the design and test of the systems as needs change and standards evolve. The reconfigurability of these systems also provides reusability of systems across programs and through multiple phases of development.

“These simulation systems have been in development since 2015, and we’ve already deployed over a dozen systems with thousands of I/O channels at major aerospace and military aircraft manufacturers,” said Peter Blume, founder and CEO of Bloomy. “Our industry experience combined with standard COTS products from leading suppliers including NI, Virginia Panel and The Mathworks results in lower lead times and reduced total cost of design and test of aircraft systems, yielding faster development cycles for airframes and systems.”

A key element of the Bloomy Simulation Reference System is NI Switch, Load and Signal Conditioning (SLSC), which offers the following benefits to design and test engineers:
- Common cable connectors which reduce custom cable assemblies and point-to-point wiring
- Fault insertion built into the architecture and available on every analog simulation channel
- Ability to breakout and probe every channel using Bloomy ThroughPoint™ panels
- Built-in self-test for rapid verification of system integrity
- Use of COTS components for shorter lead times when deploying new or updated systems

“We have collaborated with Bloomy for the past five years on the development of SLSC modules and the architecture of HIL test platforms,” said Luke Schreier, vice president and general manager of Aerospace, Defense, and Government Business at NI. “During that time several major airframe manufacturers have successfully deployed these test platforms utilizing Bloomy’s HIL test systems expertise.”

For more information on the three new aircraft HIL test platforms and the Bloomy Simulation Reference System visit http://www.bloomy.com/products/simulation-systems.
About Bloomy
Bloomy Controls, Inc., (Bloomy) provides products and services for avionics real-time test, manufacturing functional test, battery test and simulation, as well as world-class NI LabVIEW, TestStand, and VeriStand application development. Typical applications include PCBA functional test; aerospace systems integration lab (SIL) data systems; avionics and battery hardware-in-the-loop (HIL) test; and rapid development of OEM software. Bloomy is a NI Platinum Alliance Partner* and is ISO 9001:2015 certified.

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