

# Hardware-in-the-Loop with **VeriStand**<sup>TM</sup>

Specialists in hardware-in-the-loop test systems, WTI provides integrated Turnkey systems for a full range of electronic control modules. We have selected National Instruments **VeriStand**<sup>TM</sup> (formerly EASE, developed by WTI) software platform which provides a comprehensive set of software tools and seamless integration with National Instrument's PXI hardware platform; setting a *new standard* for open, adaptable, scalable, expandable, and cost effective ECU simulation and testing. The **VeriStand** real-time environment ensures determinism thus providing system stability, reliability, real-time sequencing, and time based repeatability. The **VeriStand** operator interface is housed in a standard desktop PC and communicates to the real-time test system via TCP/IP. Test development, sequencing and all configuration is performed in a familiar Windows based environment that requires no knowledge of any programming language. The Graphical User Interface is completely customizable by selecting user interface items from a menu; the user has control of the GUI and the capability to edit the GUI in run-time. **VeriStand** supports model integration from a variety of vendors including Matlab/Simulink, LabVIEW, .dll, and Python. Test generation is simplified utilizing our intuitive menu driven test sequence editor; simply select the command and insert it into the script. Additionally, the **VeriStand** platform allows for importation of existing test scripts in an Excel file format.

Wineman Technology is a recognized leader in the design and build of specialty machines for data acquisition and test. Possessing vast experience in ECU life cycle, durability, functional and custom HIL test systems; we have a unique combination of skills enabling us to provide a broad range of tools, systems and support necessary for the development and deployment of Hardware-in-the-Loop simulation and test systems.

## FEATURES:

Direct Model Integration:

- Matlab<sup>TM</sup> -Simulink<sup>TM</sup>
- Python
- .DLL

Test Sequence Builder

Runtime GUI Editing

Sensor Simulation with FPGA

Extensive Utilities:

- Calibration
- Error Reporting
- Channel Configuration
- Test Reporting

Vehicle Bus Communications

Real-time Sequencing

## BENEFITS:

- COTS Hardware
- Open Architecture
- Cost Effective
- Scalable
- LabVIEW Based

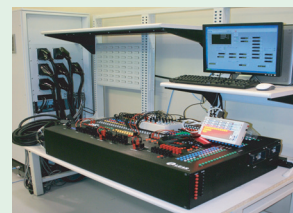
## SERVICES:

- Test System Customization
- System Support
- Custom Loads
- Fault Insertion Units
- Test Configuration
- Fixture Design
- Break Out Box
- Customizable Software & Hardware



ABS HIL Tester

Custom EPS Hil



Body Control Module



Multi-Module Tester

