NI Aerospace and Defense Forum - Italy

- Espositori Gold
  - Asterisco Tech
  - Info Solution
  - IPSES
  - MPG Instruments
  - Virginia Panel Corporation
ASTERISCO TECH
Asterisco Tech designs and manufactures customized systems for the aerospace industry, focusing on EOL production testing and R&D applications for:

- **Mechanical transmission**
  - Tail Rotor Gearboxes for helicopters
  - Recirculating ball screws
  - Tiltrotor transmission tilting table

- **Fuel system**
  - Full fuel system test
  - Pumps, valves, injectors

- **Hydraulic and lubrication systems**
  - Pumps, valves, linear actuators, filters
  - Ground support test stands for aircraft assembly lines
  - Impulse testing

- **Electric accessories**
  - Fan
  - Control cloches

- **Pneumatic systems**

- **HVAC systems**

MIL-PRF-5606-H Hydraulic test stand
User can create complex test sequences using the GUI, no programming skill is required.

Ideal solution for R&D Labs, for V&V phase

Single or multi DUT+ Real time processing , Report generation on file and DB
TESTBENCH FOR VALIDATION AND TEST OF MOTORS

The system is able to stimulate the DUT with electric signals and thorough BUS communication to validate FW onboard. The system includes:

- Real Time control logic
- Manual control panels
- Electric motors
- Magnetic brakes
IPSES designs and builds high-level solutions for aerospace & defense, industrial manufacturing, automotive & transport and energy applications, focusing on testing and embedded system development. Solutions cover a wide range of applications: functional, vision, RF and Boundary-scan testing with modular hardware and software, embedded development, timing and frequency generation applications.

NI CERTIFICATIONS
4 Certified LabVIEW Architects
3 Certified LabVIEW Developers
2 Certified LabVIEW Embedded Developers
2 Certified TestStand Architects
1 Certified LabWindows/CVI Developer
1 Certified Professional Instructor

PARTNERSHIP
National Instruments Silver Alliance partner
XJTAG technology partner and exclusive Italian reseller
6TL Engineering technology partner and exclusive Italian and Switzerland reseller
Microchip Platinum design partner
TESTING

• FUNCTIONAL TEST
• RF TEST
• VISION & AUDIO TEST
• BOUNDARY SCAN
• COMBINED & INTEGRATED TEST SYSTEMS
• NON-REGRESSION TEST
• TEST SEQUENCES

SOFTWARE DEVELOPMENT

• LabVIEW
• LabVIEW real time
• LabVIEW FPGA
• TestStand
• LabWindos/CVI
• C++ - .NET C#
• VHDL

RF TECHNOLOGIES

Radar, GNSS, WiFi and WiMAX

NI-SYSTEMS

PXI, VST-VSA-VNA, DAQ
CompactRio; FlexRio, CAN,
HARDWARE AND FIRMWARE
FPGAs, high-speed signals, embedded processors, PCBs

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50 Module Solution

- High I/O solution (50 modules)
- Intermixable connector modules
- Platform configuration supports 81.6 Kilograms
- VXI Plug and Play Kit
- Reliable connectivity beyond 20,000 cycles
NI Aerospace and Defense Forum - Italy

- Espositori Silver
  - CBL Electronics
  - M3 Systems
  - MeasureIT
  - PCB Piezotronics
  - Skytechnology
  - Teseo
CBL ELECTRONICS
ATOM-T TEST & TROUBLESHOOTING

• Every test system offers the possibility to make burn-in test, ATP, until test and validation of digital and analogue boards.

• The common test platform to all GPATE ATOM² series guarantees application portability among the systems of the same family.

• With the test system comes a ready to use and cost-effective software platform enabling to build, maintain and automate test applications over time without specific programming knowledge.
M3 SYSTEMS
GNSS Simulation Test and Measurement Solution

- StellaNGC Simulation
- StellaNGC Record & Playback
- StellaNGC Scenario Replayer

AUTOMOTIVE | AERONAUTICS | SPACE | DEFENSE

TOULOUSE BRUXELLES
Software suite which supports GNSS tests and measurements needs throughout the **design cycle**, from **prototyping** to **manufacturing**.
MEASUREIT
be the preferred technical partner in sensors and instruments selection for National Instruments customers in the aerospace field

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Features:
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Product applications:
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- Radar/Antenna testing
- Flight and ground vibration testing

Come to visit our booth for more details
SPECIAL SENSORS FOR A&D APPLICATIONS

PCB Piezotronics is leader in the developing sensors for A&D applications such as:

- Pyroshock accelerometers
- Blast sensors
- Low outgassing sensors for satellites

Come to visit our booth to discover the new triaxial ICP® accelerometer:

- Mechanically isolated
- Electrically filtered
STTE REALIZATION – HW DESIGN (ELECTRONIC AND MECHANICAL) AND SW
  • AVIONIC DEVICES, DIGITAL CARDS, RF CARDS

ATE E TPS REALIZATION – HW DESIGN ELECTRONIC AND MECHANICAL) AND SW
  • AVIONIC DEVICES (CMA), DIGITAL CARDS, RF CARDS

MULTIPATH FADEING EMULATOR IP
  • SW-IP FOR NI VST
  • TWO-BEAM MODEL WITH FRACTIONAL DELAYS (RADIO BRIDGES)
  • CONFIGURABLE
  • CUSTOMIZABLE

PROGRAMMABLE SPACE SUBSYSTEM BASED ON THE SPACE WIRE INTERFACE

MILANO, TORINO, ROMA
STTE FOR RFFE CARD– TEST BENCH FOR RADIOFREQUENCY CARD

- TEST SW DI TEST DEVELOPED IN CVI
- PXI BASKET WITH RF RESOURCES FOR MEASUREMENT MANAGEMENT
- RF INTERFACE CUSTOM DRAWER
- CARD MOUNTING UNIT
- CUSTOM WIRING FOR DIGITAL CONTROLS AND RF SIGNALS
- SELFTEST
- DOCUMENTATION (DESIGN, MDP, ROUTING DIAGRAMS, VTP, VTR)
TESEO S.p.A., part of Eiffage Group through Clemessy, is located in Turin (Italy) and has achieved an outstanding 41 years hands-on experience as system integrator, electronics engineering and manufacturer, a specialized technology solution provider.

Application Areas

- IronBird – Integration RIG’s – R&D Test Benches
- Manufacturing Test Equipment – STTE – SCOE
- Ground Support Equipment (GSE)
- Telemetry: UAV Links, Flight Test, RF Matrix
- Preventive, Corrective and Evolutive Maintenance
- Radiofrequency modules and applications
- Avionics (IFF-DCU, GPS FU, DSU)
- EW-EWCM Instruments, including RF Matrix
- NI Instrument and Full Test System Calibration
- RF/EMC/DO Testing

NI SLSC ARCHITECTURE
Come to visit us at the Exhibition Area to see our latest NI SLSC solutions for advanced test configuration

NCAGE  A1372
TESEO TEFAS-LEFAS Test Bench for M346 is a bench for testing the fly by wire commands on stage A and stage B of M346. The goal is to have an automatic system capable to replace the old manual system used for test the first two M346. It’s used in the Final Assembly Line and for the customer local test (AGE).

Instrumentation: NI PXI
Acquisition and control: NI LabVIEW, NI LabVIEW RT

TESEO Special To-type Test Equipment (STTE) is the standard test bench for avionic modules, able to run Burn-In or Functional test procedures of Eurofighter Typhoon on-board electronics:
- Distribution Unit (DU)
- Multi Function Rail Launcher (MFRL)
- Integrated Tip Station Unit (ITSU)
- Safety Critical Armament Computer (SCAC)
- Not Safety Critical Armament Computer (NSCAC)
- Enhanced Safety Critical Armament Computer (ESCAC)
- New Enhanced Safety Critical Armament Computer (NESCAC)
- Fuselage Station Unit (FSU)
- Radar Altimeter (RA)

Instrumentation: NI PXI
Acquisition and control: NI LabVIEW, NI LabVIEW RT

TESEO Servo Actuator Test Bench (SATB) is the standard test bench platform which serves R&D and product end of line test of:
- Linear servo-actuators for aircraft FLAPS
- Rotary servo-actuators for aircraft
- Leading Edge Flap Actuation System (LEFAS)
- Trailing Edge Flap Actuation System (TEFAS)
- Linear Main and Tail Rotors servo-actuators

Instrumentation: NI PXI, NI cRIO
Acquisition and control: NI LabVIEW, NI LabVIEW RT