



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:

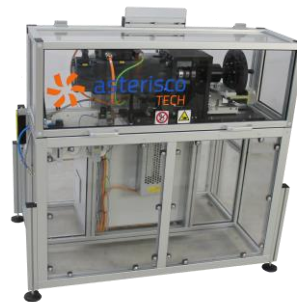
- Mechanical transmission
 - Tail Rotor Gearboxes for helicopters
 - Recirculating ball screws
 - Tiltrotor transmission tilting table
- Fuel system
 - Full fuel system test
 - Pumps, valves, injectors
- Hydraulic and lubrication systems
 - Pumps, valves, linear actuators, filters
 - Ground support test stands for aircraft assembly lines
 - Impulse testing
- Electric accessories
 - Fan
 - Control clothes
- Pneumatic systems
- HVAC systems



MIL-PRF-5606-H Hydraulic test stand

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Brakes test stand



Burst and impulse test stand



Lubrication circuit test stand

ASTERISCO TECH Srl

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INFO SOLUTION

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VIMODRONE (MI)

ROMA

GENOVA

TARANTO



CONSULTING SERVICES

ATE/EOL SYSTEM TESTING

BOARD TEST EQUIPMENT

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



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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

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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



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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
- LabWindows/CVI
- C++ - .NET C#
- VHDL

RF TECHNOLOGIES

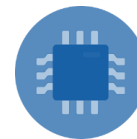
Radar, GNSS, WiFi and WiMAX

NI-SYSTEMS

PXI, VST-VSA-VNA, DAQ
CompactRio; FlexRio, CAN,

HARDWARE AND FIRMWARE

FPGAs, high-speed signals,
embedded processors, PCBs



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VIRGINIA PANEL CORPORATION

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Makers of Reliable Mass InterConnect
Solutions for Over 60 Years

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DEFENSE

AUTOMOTIVE

TELECOM

MEDICAL



UNITED STATES EUROPE

MIDDLE EAST ASIA

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9050^{TR}

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





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- Espositori Silver
 - CBL Electronics
 - M3 Systems
 - MeasureIT
 - PCB Piezotronics
 - Skytechnology
 - Teseo

CBL ELECTRONICS

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AVIONICS

DEFENSE

SPACE

NAVAL

SEMICONDUCTORS

INDUSTRIAL

CONSUMER ELECTRONICS



VOCABOLO BODOGLIE 148/P/3
06059 TODI (PG)

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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



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GNSS Simulation Test and Measurement Solution

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

AUTOMOTIVE | AERONAUTICS | SPACE | DEFENSE



TOULOUSE

BRUXELLES

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Software suite which supports GNSS tests and measurements needs throughout the **design cycle**, from **prototyping** to **manufacturing**.



Positioning
Performance
Evaluation



GNSS Sensor
Characterization



System
Integration



End of Line
Testing

MEASUREIT

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MeasureIT

MEASUREMENT AND AUTOMATION COMPONENTS

be the preferred technical partner
in **sensors** and **instruments** selection
for National Instruments customers
in the aerospace field



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 MeasureIT Portugal

@ Lisbon

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@ Barcelona

sales@measureit.it

www.measureit.it

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sensors and components for aerospace measurements

vibroacoustics

GRAS Sound & Vibration

PCB PIEZOTRONICS
MTS SYSTEMS CORPORATION

lika



fluid/gas/oil



Endress+Hauser

Delta OHM
Member of GHM GROUP

trafag
sensors controls

E+E
ELEKTRONIK



electrical

LEM

CHAUVIN ARNOUX

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PCB PIEZOTRONICS

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CASE ISOLATED ICP® TRIAXIAL ACCELEROMETERS

Features:

Case Isolated

TEDS enable

Rugged and durable, thru hole mounting



Product applications:

Vibration measurements in the presence of electrical noise

Radar/Antenna testing

Flight and ground vibration testing

Come to visit our booth for more details

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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



SKYTECHNOLOGY



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Skytechnology

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 FADING 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

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Skytechnology

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

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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



BOA 12845



4000053683

NCAGE A1372

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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

