



NI Forum

AUTOMOTIVE

Automotive Forum India

Exhibitors:

- BlauPlug Innovations Pvt Ltd
- MaxEye Technologies
- Opal RT
- Micropross (Now National Instruments)
- Theta measurement and control solutions
- Captronic systems
- Testamatic systems

BlauPlug Innovations Pvt Ltd

NI Forum

AUTOMOTIVE



BlauPlug
BlauPlug Innovations Pvt Ltd

Prototyping and Development of Embedded Products

Real-Time Testing Solutions

EV & Battery management systems

ADAS Projects

Engine Control Systems

ICE

HEV

BEV

- Project Consultation
- Feasibility Studies
- Rapid Prototyping
- Project Management
- System Integration
- Deployment Testing
- Performance Engineering
- Training & Support

NI Forum

AUTOMOTIVE



BlauPlug Innovations Pvt Ltd



ECU, INFOTAINMENT HIL SYSTEM

ENDURANCE TEST FOR WINDOWS REGULATOR

DESIGN & PROTOTYPE FOR EV CHARGING SYSTEMS

EV BMS TEST SYSTEMS



BANGALORE, IN MUMBAI, IN
PUNE, IN USA

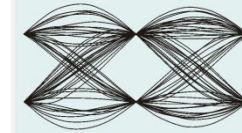


MaxEye Technologies



NIForum

AUTOMOTIVE



**MAXEYE
TECHNOLOGIES**

In-Vehicle Infotainment Test System

Digital Audio and Video Broadcast
(AM,FM-RDS,TMC / DAB / DRM / SXM / HD Radio / DVB / ISDB-T / CMMB)

Multi-Constellation GNSS Simulator
(GPS / GLONASS / Galileo / BeiDou / IRNSS(NAVIC) / QZSS)

HMI Validation & Touch Screen Automation



PUNE

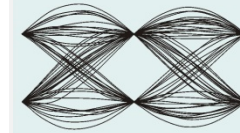
CHENNAI

BENGALURU

HYDERABAD

NIForum

AUTOMOTIVE



**MAXEYE
TECHNOLOGIES**

Telematics Test System

Basestation Emulator
(GSM / WCDMA / LTE / eCall)

Multi-Constellation GNSS Simulator
(GPS / GLONASS / Galileo / BeiDou / IRNSS(NAVIC) / QZSS)

Vehicle Network Simulation
(CAN / LIN / FlexRay)



PUNE

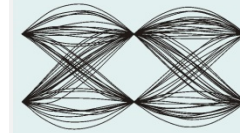
CHENNAI

BENGALURU

HYDERABAD

NIForum

AUTOMOTIVE



**MAXEYE
TECHNOLOGIES**

Key Fob Test System

Standards: UWB & Z-Spec (IEEE 802.15.4)

Ranging & Time of Flight Measurement

Modulation Accuracy and Receiver Measurements
(Impulse Response, BER, Frequency & Clock Offset, SEM etc.,)



PUNE

BENGALURU

CHENNAI

HYDERABAD

Micropross Now National Instruments

NI Forum

AUTOMOTIVE



MICROPROSS IS NOW



NFC and Wireless charging test tools for the automotive market

How to test NFC and Wireless charging modules in design and production with a consistent performance





NIForum

AUTOMOTIVE

MICROPROSS IS NOW



NFC : WIFI AND BLUTOOTH PAIRING

NFC: SMARTPHONE CAR ACCESS

WIRELESS CHARGING : CHARGING PHONE
IN THE CAR WIRELESSLY



PUNE

BENGALURU

CHENNAI

HYDERABAD

OPAL-RT Technologies

NI Forum

AUTOMOTIVE



Feature #1 HIL FOR ELECTRICAL POWERTRAIN USING NI-PXIe PLATFORM

Feature #2 PHIL FOR INVERTER TESTING





NIForum

AUTOMOTIVE



APPLICATION #1 FPGA BASED MOTOR SIMULATION

APPLICATION #2 BATTERY CELL SIMULATION

APPLICATION #3 POWER HARDWARE IN LOOP SIMULATION



BENGALURU

Theta measurement and control solutions



NI Forum



AUTOMOTIVE



We MeaSURE...!!

TMCS Pvt Ltd is company of Theta Group of companies, Silver Alliance Partners of National Instruments.

20 + years of experience in building NI hardware and LabVIEW based systems.

Our capabilities include

- LabVIEW based Software Development.
- Data Acquisition System (DAQ).
- Automated Test Equipment (ATE).
- End Of Line Testers (EOL).
- Panel Engineering services using National Instruments (NI) products.

OUR ESTEEMED CUSTOMERS

- Leading Automotive OEM's, Tier 1 Suppliers
- Research organizations
- Process Equipment Manufacturers
- Steel Industry

www.tmcs.in

sales@tmcs.in

[+91 80077 74712](tel:+918007774712)

NI Forum

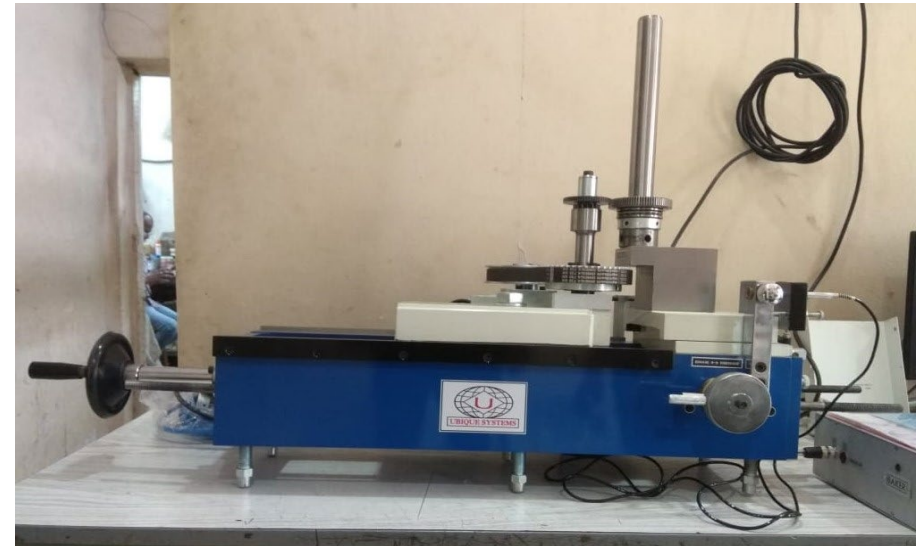
AUTOMOTIVE



Gear Rolling tester-Identify Defects in Gear



We MeaSURE...!!



- This system is used to measure and analyze the functional performance of gears.
- System consists of mechanical assembly, Servo Motor and Drive. NI DAQ hardware, other sensors and PC with application software.

- This assembly is used to capture deviations / uneven surface, High Spot on gear, Tooth to Tooth error.
- Machine will add value to various Gear Manufacturer, OEM's in terms of functionality, performance.

Captronic Systems

NI Forum

AUTOMOTIVE



Im





NIForum

AUTOMOTIVE



CAPTRONIC SYSTEMS
AUTOMATION & TEST EQUIPMENT SPECIALISTS

End of line Test system for Connected Cars ECU

Full functional test of ECU –

Electrical functions , CAN, LIN, Automotive Ethernet Tests

RF functional tests – GNSS, BT, Wifi, GPS

TestStand & LabVIEW based test software to execute more than
700 test cases

Universal ATE software for testing different types of ECUs

NI Forum

AUTOMOTIVE



- # E-Mobility Test solutions – BMS, Battery, MCU
- # Connected Cars ECU ATEs – Electrical & RF
- # Instrument Cluster Test systems – Vision & functional
- # Infotainment Test solutions



BENGALURU

PUNE

CHENNAI

TRIVANDRUM

Testamatic Systems

The logo for NI Forum, featuring the text "NI Forum" in white on a blue rectangular background.

NI Forum

The text "AUTOMOTIVE" in white on an orange rectangular background.

AUTOMOTIVE



End of Line Testing of a Vehicle Tracking System

Design and development of production Automated test equipment to test Vehicle Tracking System (VTS) in manufacturing test line using NI Hardware and Software, Testing 2 UUTs at a time.



BANGALORE

PUNE

MICHIGAN, USA



NIForum

AUTOMOTIVE



The Following Tests Are Performed On This Tester:

- CAN , RS232 and GSM Communication
- GPS/GNSS Location Test
- Battery Status Test
- Memory Status Test
- Server Communication Test
- Digital Input and Digital Output Test



www.testamatic.com

NI Forum

AUTOMOTIVE



Hardware used in the Tester:

- NI DAQ 9174
- NI 9263 Series C AO Module
- NI 9227 Current Input Module
- NI USB 6525
- NI USB CAN 8502
- SMPS – 8V/2A, 12V/5A, 24V/2A, 32V/2A.
- GSM Module
- Custom Board used to switch between VBAT, CAN Communication, UART Communication and Amplified Analog input



www.testamatic.com