Infocatim

Innovative. Powerful.

Instrumentation Control Systems Integrator

Capabilities & Past Track Record

Jan 2017



About Infodat

- □ Premier Systems Integrator in Industrial Automation/Control/Instrumentation space since 2002
- Turnkey Cloud based Industrial Internet Solutions Provider

Our vision is to enable **enterprises achieve more**, by leveraging our expertise as a premium Systems Integrator capable of applying **cutting edge Industrial IoT technologies**.

Integrating (physical + digital)^{Big Data Analytics} = Achieve More







Expertise – LabVIEW & NI Technologies

- Custom control software development, system integration, and consulting services.
- **Embedded Systems for Monitoring and Control** using software and reconfigurable I/O (RIO) hardware, PLCs, PC-based systems, and single-board computers (SBCs) with the specialization of custom hardware
- Automation Control Integration of Industrial and Embedded Networks using communication protocols like CAN, CANopen, PROFIBUS, DeviceNet, Modbus, MQTT, AMQP, and EtherCAT.
- Wireless Sensor Networks that can extend the reach of a system by wirelessly monitoring assets or environment with reliable, battery-powered measurement nodes, featuring industrial ratings and local analysis and control capabilities.
- Marshalling Cabinets & Human Machine Interfaces (HMIs) development of robust, reliable operator interfaces and visualization systems with HMIs and various touch panel computers















Expertise

- ☐ Process Automation Systems; related Hardware Software and services
- ☐ PLC as well as related HW/SW, services, I/O and bundled HMI
- □ Other Control HW Components such as 3rd party I/O, signal conditioners, intrinsic safety barriers, networking hardware, unit controllers and single/multiple loop controllers
- ☐ AC Drives, Pumps & Motors
- ☐ Process field instrumentation such as temperature, pressure transmitters, flowmeters, level transmitters and associated switches
- ☐ Control Valves, actuators, sensors and positioners
- ☐ Automation related software: Process Control, Simulation, 3rd party HMI, ERP integration packages, Custom software development
- ☐ Processing equipment such as mixers, vessels, heaters
- ☐ Electrical equipment such as low-voltage switchgear etc.
- ☐ Condition Monitoring Systems, Predictive Maintenance Solutions



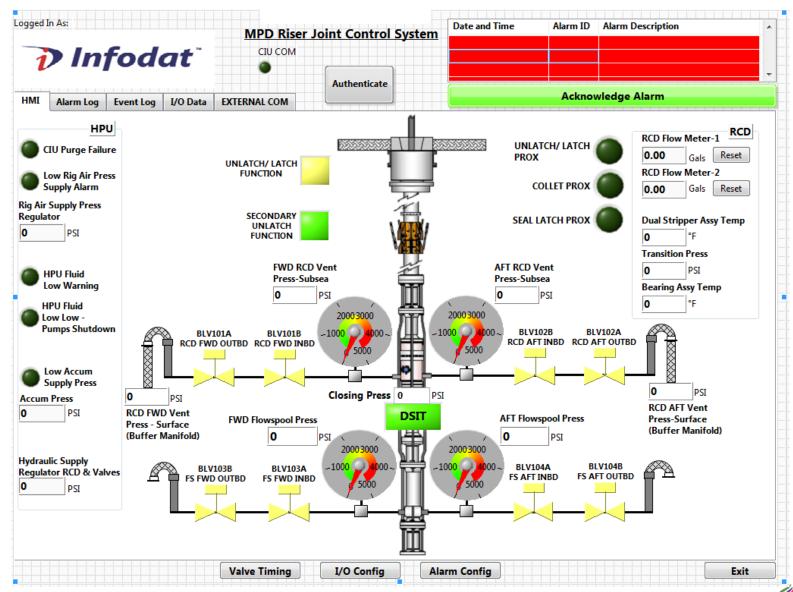
Infodat Advantage

Our solutions provide substantial benefits

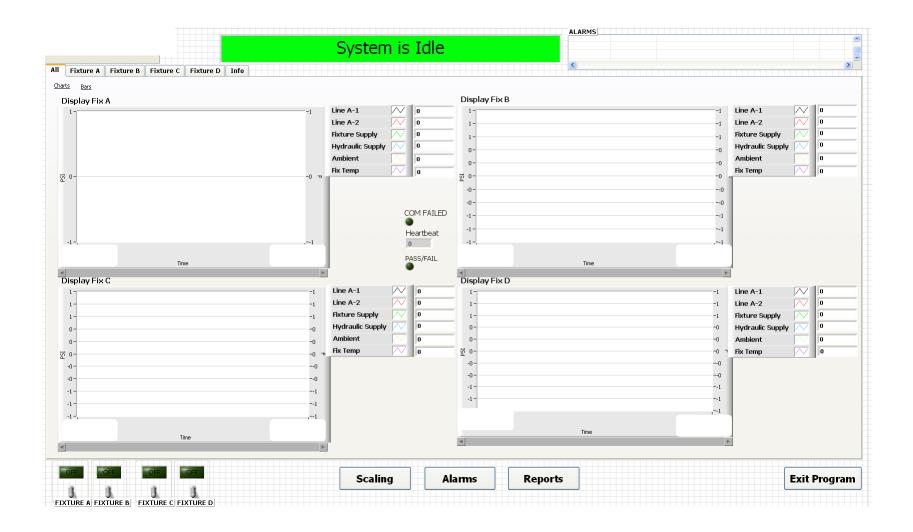
- ☐ Reduced Costs / Low TCO
 - > Expertise working with NI, Siemens, Rockwell/Allen-Bradley etc Instrumentation Systems
 - > Reuse of technological know-how and solutions
- ☐ Mitigate Project Risk
 - > Full responsibility for entire instrumentation project
 - > Multiple vendor management
- ☐ HSE Standards & Specification Compliance
- ☐ Dedicated Project Management
 - > Apply Lessons Learnt / Execution Plans / Detail Procedures Reports / Interface Management
 - > Streamlined Reporting / Update Meetings / Communications Management
- ☐ Standardized instruments which reduce service costs later



Projects – MPD Riser Joint Control System

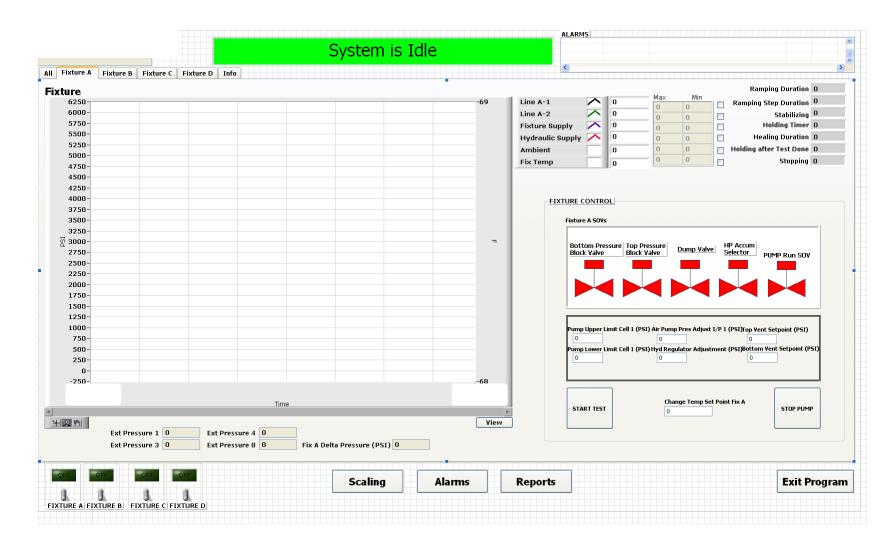


Projects – Packer Control System





Projects – Packer Control System





Projects – Subsea Well Control Panel / System



System controls & monitors a Subsea Control

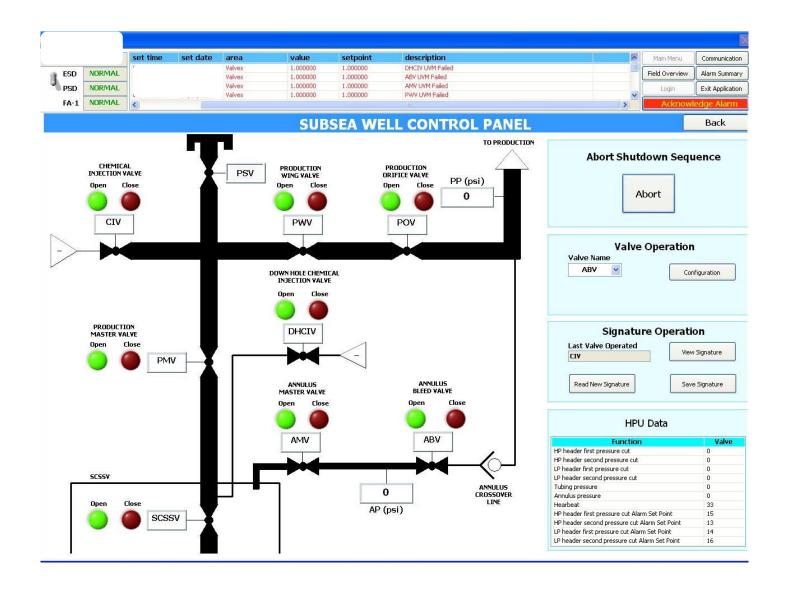
Module (SCM) using proprietary Communication

Protocol using Modbus TCP/IP.

Capability to do historical and real time trends, setup alarms, look at the alarm history and alarm summary in real time.

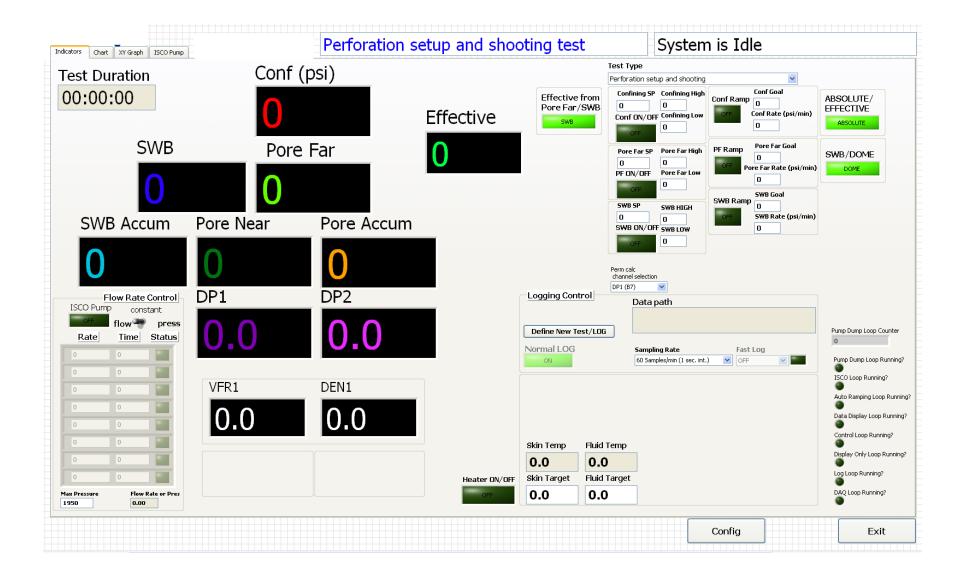


Projects – Subsea Well Control Panel / System



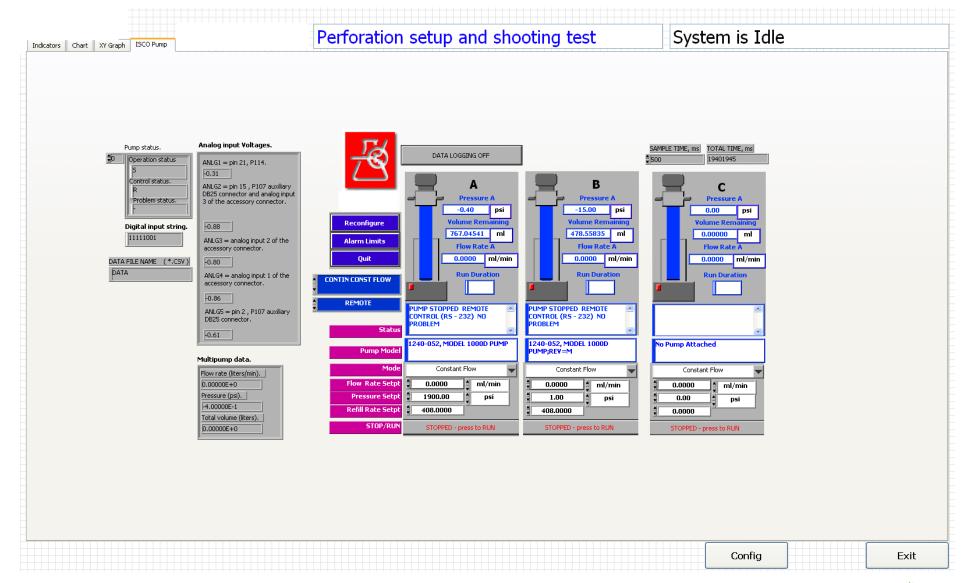


Projects – Perforation Test System

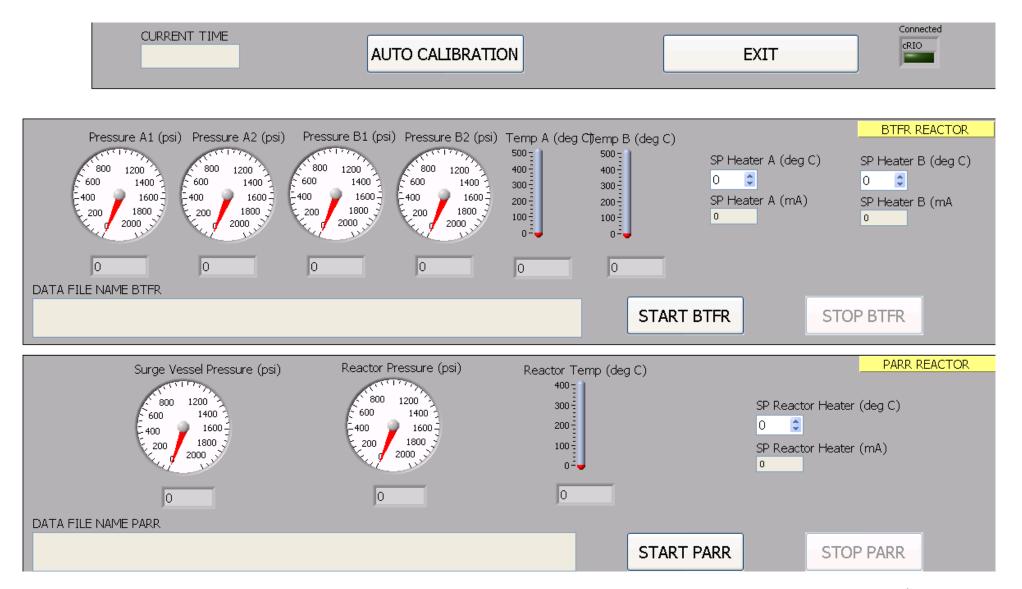




Projects – Perforation Test System

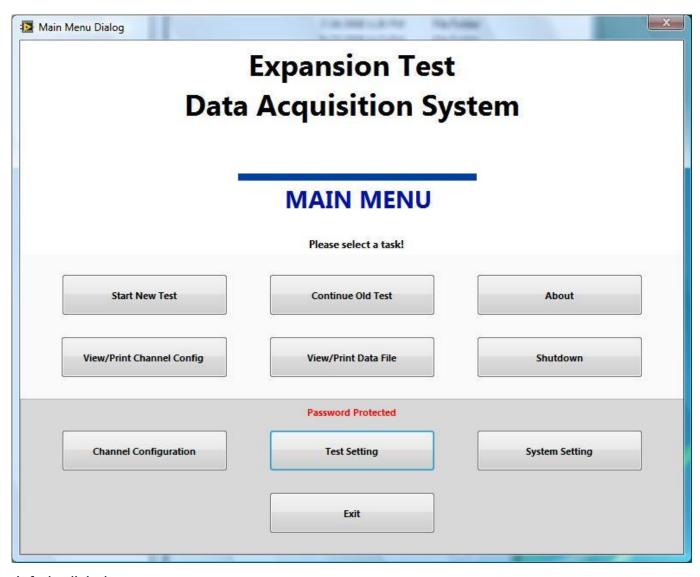


Projects – Tube Reactor & Temperature Control





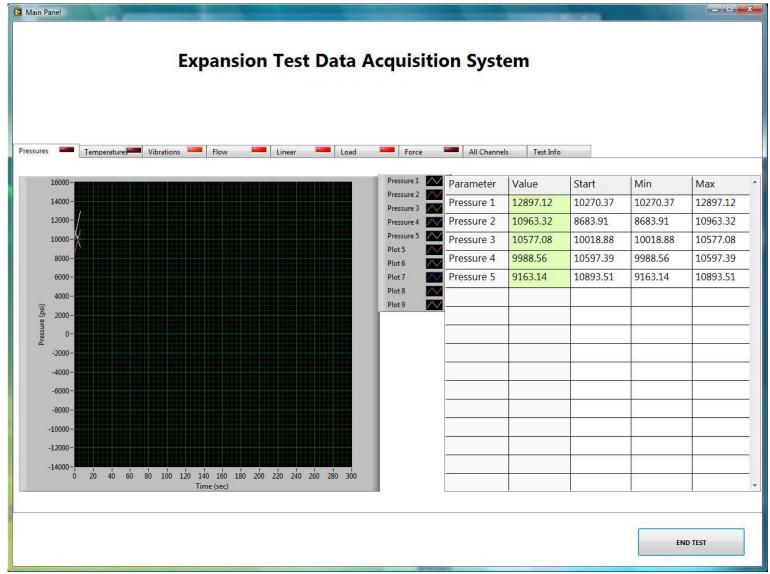
Projects – Expansion Test Data Acquisition System



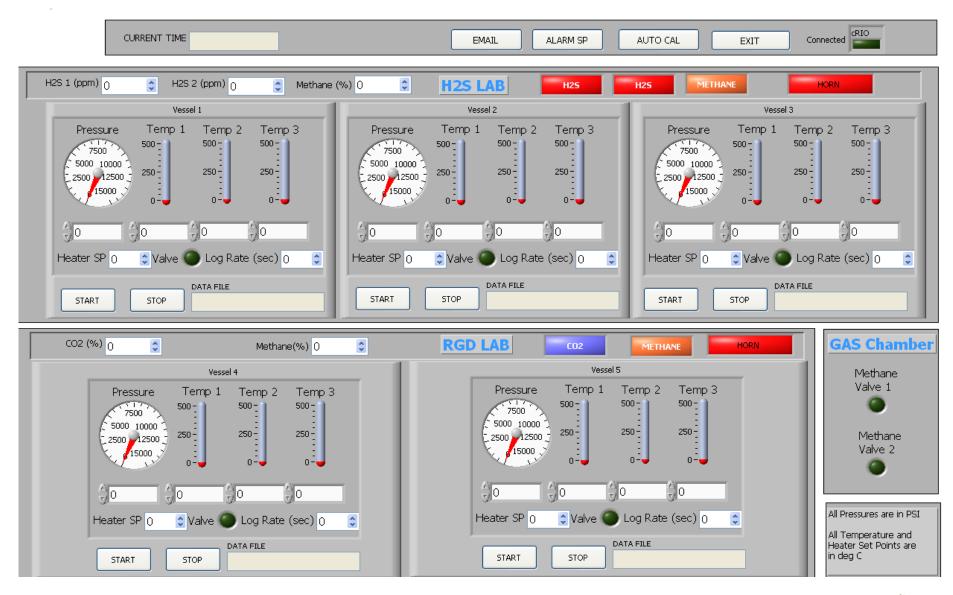
- Data acquisition and control system to run tests for inspection and testing pipeline services
- Print Custom made Reports
- Store Data
- Flexibility in selection on channels
- Various administrator access levels
- Plotting of data on graphs
- Alarming



Projects – Expansion Test Data Acquisition System

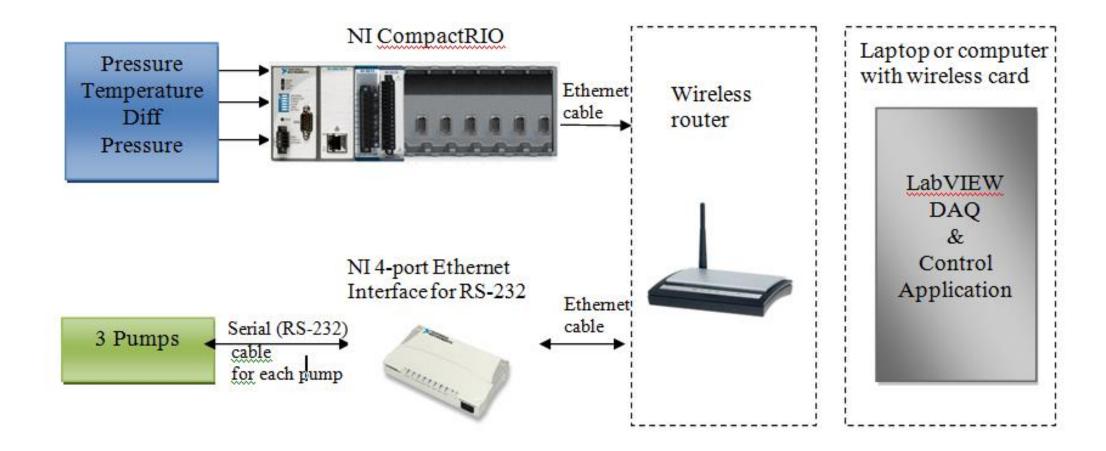


Projects – Hydrocarbons Testing Control System

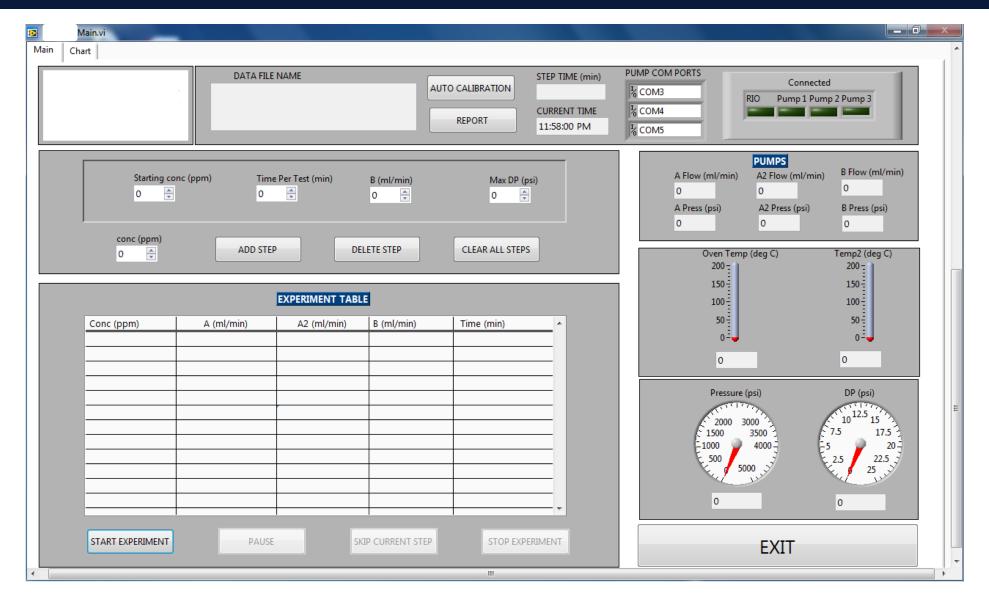




Projects – Tube Block DAC System

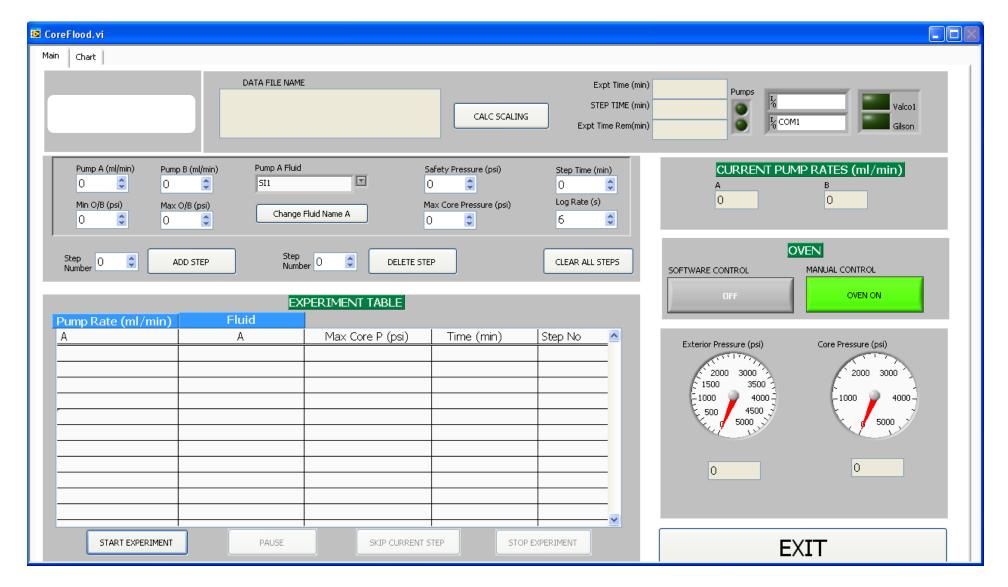


Projects – Tube Block DAC System



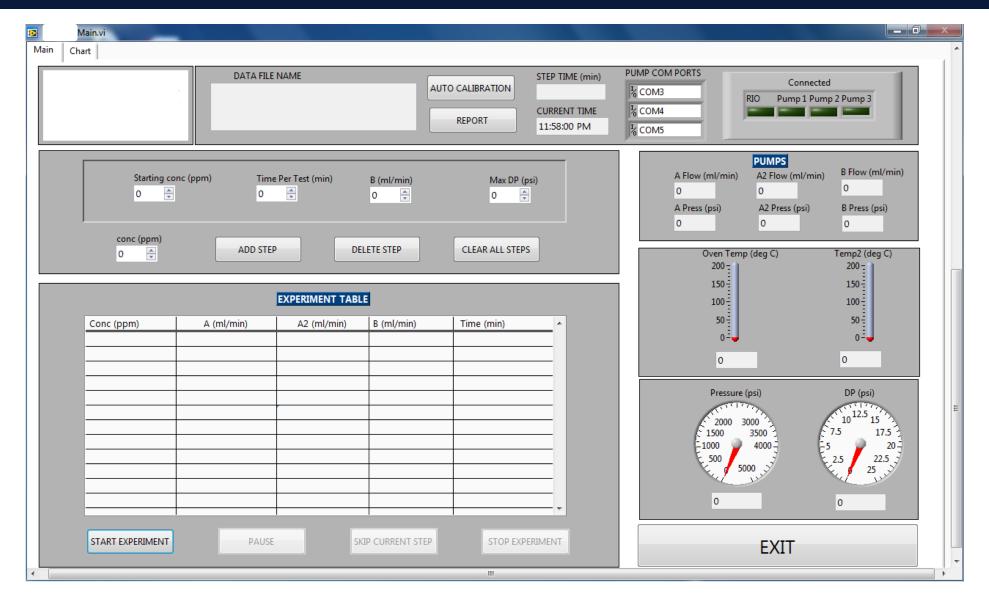


Projects – Core Flood Application System



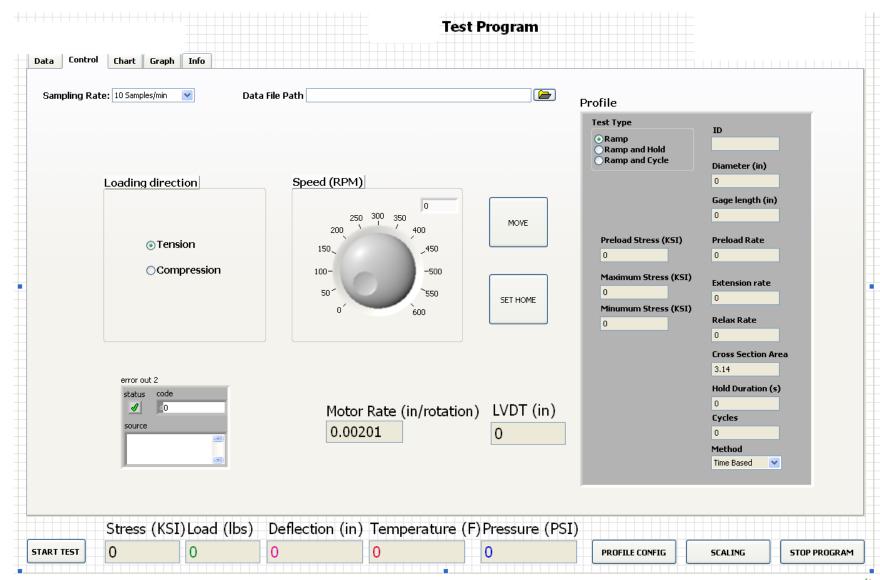


Projects – Tube Block DAC System





Projects – Test Certification System



Our Other Offerings

- ☐ TurnKey Industrial Internet Solutions Provider
 - Industrial Automation & Control Systems
 - Remote Monitoring Solutions
 - Predictive Maintenance Solutions
 - HSE & Regulatory Compliance
 - Asset Management
 - Fleet Tracking & Logistics Management





Do you know what IIoT is?



What is Industrial IoT (IIoT)?



- a) Take the exponential growth in data volumes—that is, "Big Data"— available to companies in almost every industrial sector.
- b) Add the growing technology capabilities in the area of analytics—the ability to analyze data for insights.
- c) Finally, add in the context of industries where equipment itself or patient outcomes are at the heart of the business.

The resulting sum of those parts gives you the Industrial Internet.

connect - monitor - analyze - predict - optimize



Where is **IIoT** being applied?

Priorities: 1-3 years	Aviation	Wind	Power Generation	Power Distribution	Oil & Gas	Rail	Manufacturing	Mining
Increase profitability through improved resource management	61%	71%	56%	59%	56%	67%	58%	55%
Gain a competitive edge	58%	55%	53%	69%	50%	50%	76%	48%
Improve environmental safety and emissions	39%	61%	50%	75%	59%	43%	52%	58%
Gain insights into customer behaviors, preferences and trends	58%	61%	47%	56%	38%	60%	70%	39%
Gain insights into equipment health for improved maintenance	55%	48%	34%	56%	47%	73%	67%	39%
Drive operational improvements and workforce efficiencies	42%	48%	41%	72%	44%	53%	55%	64%
Create new business opportunities with new revenue streams	45%	61%	34%	53%	47%	40%	52%	58%
Meet or exceed regulatory compliance	32%	39%	41%	63%	50%	33%	39%	39%

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