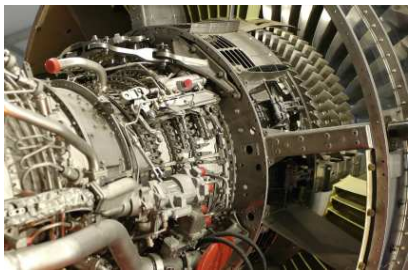
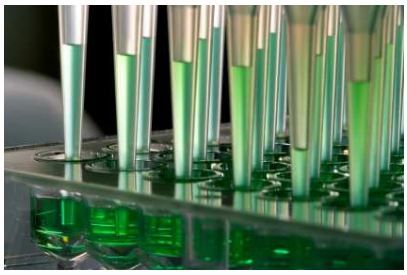
KineticaRT Solutions for Test, Measurement and Automation

Innovative and Reliable Systems and Software for Complex Engineering and Scientific Applications





KineticaRT provides companies across the globe with innovative and reliable measurement, automation and test solutions by the integration of software and Commercial Off-The-Shelf (COTS) hardware.

Technologies

- KineticaRT .NET Components and KineticaRT Studio .NET RAD
- Beckhoff TwinCAT PLC and NC-PTP, IEC 61131-3, EtherCAT , Profibus, Modbus
- National Instruments PXI, CompactRIO, LabVIEW, Real-Time and FPGA
- Microsoft .NET, C#, WPF and Silverlight, SQL, IIS
- Windows for PCs and Windows CE, Mobile for PDAs
- Gantner Instruments e.bloxx data acquisition
- PC104 computer and interface boards
- Pressure and temperature scanners

Services

- Consultancy
- Requirements analysis
- System design
- Software development
- System integration and test
- System support

Full turnkey solutions through established partnering with others for:

- Mechanical design and build
- Electrical and electronic design and build

Contact Details

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Aerospace Gas Turbine Test

KineticaRT has supplied software tool kits for the development of control and data acquisition systems for gas turbine testing to four aero engine test facility design and build companies in the UK, USA and Canada.

KineticaRT has also supplied some of these customers with the following services:

- Requirements analysis
- System design
- Hardware selection
- Custom software development
- Ongoing support

Automotive Engine Test

KineticaRT has supplied software for control and data acquisition systems to a leading manufacturer of automotive engine and chassis dynamometers.

Motorsport Wind Tunnel Control and Data Acquisition

Eur Ing Simon Hedges, one of KineticaRT's founders, is seen by multiple wind tunnel users across the UK and Europe as a leader in the field of control and data acquisition.

Simon has been involved in the design and development of three wind tunnels used by F1 teams and has been commissioned to undertake requirement analysis and system design studies for two other F1 teams.

Automation of Biotechnology Processes

KineticaRT has integrated hardware and developed software for controlling a fast Genome Sequencer.

The system includes the following:

- Sample transportation systems (linear and rotary)
- A number of 3 axis robots manipulating samples and pipettes
- A centrifuge
- Complex and accurate fluid handling
- Sample heating and cooling
- A high resolution imaging and analysis system
- User configurable operating and service protocols
- Reagent monitoring and management of replenishment
- A graphical user interface with remote monitoring via intranet/internet

Green Engineering

KineticaRT offers consultancy and implementation services for machine and process optimization. Our engineers' long experience of industrial measurement and automation projects makes us the ideal partner to help companies improve their profitability and avoid fines for non-adherence to environmental regulations.

Case Studies

See http://www.kineticart.co.uk/CaseStudies.asp

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