

INNOVARE

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Company

Welcome to Innovare

Innovare is a modeling and programming company. It builds complete solutions for end users and key subsystems for integrators and manufacturers.

The company works with clients from industries such as medical manufacturing, power generation, and telecommunications.

Companies spend millions of dollars on software every year; applications, databases, networks, the list is long.

To assure the greatest return on an investment, Innovare carefully calculates the value of its proposed solutions, identifies critical issues and risks, and estimates development and maintenance costs

During every phase of a project, Innovare works closely with a client to realize the benefits of a new system.

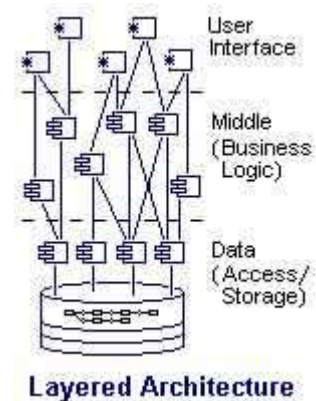
Flexible Component Solutions

Innovare systems have flexible, layered architectures that accommodate changing business requirements. Each layer has loosely coupled components, usually object based, that execute quickly and reliably.

The company uses effective modeling techniques and programming tools, including the ones shown below, to build each system.

- | | | | |
|---------------------|--|-------------------|---|
| Modeling Techniques | <ul style="list-style-type: none">· Requirements Specification· Scenarios and Use Cases· Domain Modeling· User Interface Prototyping· Architectural Modeling | Programming Tools | <ul style="list-style-type: none">· Eclipse 3.0· NI LabVIEW/CVI· Open Source TDD (JUnit)· Spring· Hibernate |
|---------------------|--|-------------------|---|

Innovare constantly investigates new development approaches, techniques, and tools that will improve software quality and reduce the cost of building and maintaining a system



System Design and Programming Capabilities

Innovare builds systems incrementally and iteratively. Primary objectives are architectural simplicity, design clarity, and code maintainability. Key engineering analysis, design, and implementation skills include

Data Management

- Requirements Specification
- UML and E/R Modeling
- Database Configuration
- Java Programming
- Web UI Programming (HTML, JSP, Servlets)

Test and Measurement






- Analog and Digital I/O Analysis
- DAQ Hardware Specification
- System Configuration
- LabVIEW/CVI Programming
- Start Up Assistance

Product Development







- Product Planning
- Prototyping
- Driver Support
- ANSI C/C++ Programming
- Upgrades and Maintenance

Sample Projects

Data Management

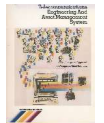
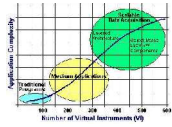
| Project | | Client | Description |
|---|--|--|---|
|  | Creos Returned Materials Authorization System | Creos (Englewood, CO) | Returned materials database for medical power supply company. Data modeling, data base design, Access database implementation, Visual Basic applications development, lifecycle support including maintenance and enhancements. |
|  | GTC Engine Component Automated Manufacturing Process | Golden Technologies Corporation (Golden, CO) | Control and monitoring of ceramic manufacturing processes for engine parts. Design and development of a prototype database management system. Two tier, client server architecture using SQL Server under NT and Visual Basic applications on individual workstations. |
|  | Paradigm Antenna Management System | Paradigm Consulting (Denver, CO) | Telecommunications inventory management system. Users manage facility assets such as building antennas and support equipment through Web browser tools. System has a tiered architecture with presentation, middle, and data layers. An SQL Server database stores all structured data. |
|  | Resource Based Management System | Management Processes and Information Systems (Littleton, CO) | Inspection and Consumer Services (Department of Agriculture, State of Colorado) database for monitoring state inspectors and their inspections. Project definition, requirements gathering, data modeling, database design, SQL Server/Visual Basic programming. |
|  | Introductory Lab Course for Database Systems Development | Columbia College (Aurora, CO) | Case based lab for intensive database survey course. Laboratory introduced students to requirements, data modeling, database design, and implementation. Students created several small Access databases during the term. |

Industrial Control and Data Acquisition

| Project | | Client | Description |
|---|--|---|--|
|  | Zuni Power Monitoring System | Qwest (Denver, CO) | Real time monitoring of facility power quality. Instrumentation and computer hardware configuration, database design, LabVIEW applications development, operator training, system maintenance. |
|  | Wolf Creek Thermal Expansion Project | Wolf Creek Nuclear Operating Company (Burlington, KS) | Monitoring of reactor reheat data. Instrumentation and computer hardware installation, LabVIEW applications software design and implementation, start up support, training, and maintenance. |
|  | Rojo Caballo Coal Handling System | Brown and Root (Houston, TX) | Coal handling control system. Project engineering for main control pannel and satellite relay panel constntruction, programmable controller programming, start up support. |
|  | | | |
|  | Parachute Creek Well Water Control System | Stearns-Roger (Denver, CO) | Well water control system with remote communications. Project engineering for control system implementation including programmable controller programming and control panel construction. |
|  | Honeywell Environmental Monitoring and Control Systems | Honeywell (Denver, CO) | Honeywell security and environmental systems. Project engineering for construction of environmental monitoring and control panels. |

Product Development and Marketing

Project



| Project | Client | Description |
|--|--|---|
| Series 9300 LabVIEW | Pacific Instruments (Concord, CA) | LabVIEW driver and applications for Series 9300 instrumentation and transducer amplifiers. Layered architecture with object based components. Supports construction of traditional instrumentation programs as well as scalable, integrated solutions for data acquisition. |
| LabVIEW Test Management System | KineticSystems Company (Lockport, IL) | Test management software environment for high speed transient tests such as air bag characterization. Product planning, specification of VXI hardware, design and implementation of LabVIEW applications software, installation consulting. |
| VXI Plug and Play Drivers | KineticSystems Company (Lockport, IL) | Software drivers for VXI data acquisition boards. Requirements generation, software specifications creation, extensive software development using LabWindowsCVI (ANSI C compliant development environment). |
| Honeywell Test Management System 1000 | Honeywell Test Instruments Division (Englewood, CO) | Personal computer based data acquisition system. Product management including sales, product planning, marketing communications. Quick Basic test applications. |
| Bell Atlantic Automated Records System (BAARS) | McDonnell Douglas (St. Louis, MO) | Outside plant engineering system for telecommunications companies. Project marketing, sales support, proposal development. |
| Telecommunications Engineering and Asset Management System (TEAMS) | McDonnell Douglas (St. Louis, MO) | Inside plant engineering system for telecommunications companies. Project marketing, sales support, proposal development. |

People

John Tyler Principal

John Tyler manages the development of database and test and measurement software. With more than 20 years of experience in systems engineering and marketing, Mr. Tyler has created a range of new systems and software products for Innovare clients.

For Creos, a power supply manufacturer in Englewood, CO, Mr. Tyler designed a returned materials system that tracks more than 25,000 power supply components. Innovare implemented this database in Microsoft Access and has maintained it for over 6 years.

For the KineticSystems Company (Lockport, IL), Mr. Tyler developed ANSI C compliant instrument drivers for its family of VXI high performance data acquisition modules. These drivers allow test engineers to configure and run VXI data acquisition modules easily from LabVIEW, C, or Visual Basic development environments.

As a product manager for the Honeywell Test Instruments Division, and then for McDonnell Douglas Information Systems Group, Mr. Tyler brought new data acquisition and engineering support products to market. The Honeywell HTMS 1000 was one of the first fully integrated PC based data acquisition systems.

As a project engineer for Mundix Control Systems, Mr. Tyler built industrial control systems using Allen-Bradley and Modicon programmable controllers. Mr. Tyler also worked with the RMH Group (Lakewood, CO) to design and implement a unique monitoring system for the Wolf Creek Nuclear Operating Station. This system saved the company millions of dollars during reheat cycles.

Bachelor of Engineering, Dartmouth College, Hanover, N.H. (1976)
Master of Engineering, Dartmouth College, Hanover, N.H. (1978)

Contact

Innovare
5991 East Briarwood Drive
Centennial, Colorado 80112
Attention: John Tyler

Telephone: 303.886.2860
Fax: 303.220.7450
Email: jdtyler@innovaresystems.com