PCS Technologies LLC



Company Overview

Design Consulting

PCS Technologies LLC (PCS) is a professional engineering firm which provides Design and Implementation Consulting services for PLC and HMI based SCADA systems.

PCS utilizes strategic business partnerships



with engineers and contractors to promote seamless integration of the control system and plant operations.

Consulting Services include:

Services provided by PCS include:

- Instrument specification
- Control system architecture design
- Site survey
- ⊕ P&ID generation
- 🖶 ISA S5.1 & S5.4 loop diagrams
- ⊕ I/O list development
- Industrial Ethernet network design
- ⊕ SCADA system design
- \oplus SCADA System configuration services
- Hardware and software selection
- PLC/HMI programming & development
- Test plan development
- Training (Operation, Maintenance, etc.)
- I/O checkout and validation
- System commissioning
- Project Management

Methodology

A proven project management and execution methodology is used to ensure timely completion of projects within budget and in conformance with specifications.

Modular Programming

Modular programming methods are used to streamline programming, testing and debugging.

Use of Standards

AWWA, CSIA, IEC, ISA and NFPA industry standards are used to promote consistency throughout projects and to facilitate sharing of information.

Documentation

All projects are thoroughly documented. Functional Requirements specifications are submitted to and approved by the Owner prior to development, and Factory Acceptance Test plans and results are provided to the Owner prior to installation. As-built drawings are provided to the Owner at the completion of each project.

Industry Experience

PCS has successfully completed major projects for the following industries:

- ⊕ Automotive
- Chemical Processing
- Commercial & Industrial HVAC
- 🖶 Food & Beverage
- Industrial Wastewater Treatment
- # Municipal Water & Wastewater Treatment
- ⊕ OEM System integration
- \oplus Pharmaceutical (S88.1)
- Dever Generation

Mission Statement

PCS Technologies LLC strives to be the premier control systems integrator to the regional municipal sector by providing quality engineering services, developing strategic partnerships, and assuring high customer satisfaction.

Systems Integration

PCS has extensive experience implementing control systems for various types of processes, ranging in complexity from monitoring-only systems to fully automated plants. Custom control algorithms are written for each system, based on process control requirements.

Typical control systems are PLC/HMIbased and include radio telemetry and/or

Ethernet communication networks. All systems are fully tested prior to commissioned using device and process simulation to



reduce field startup time and to guarantee high quality. Factory and site acceptance testing of each system further ensures customer satisfaction.

Integration Services include:

- + Functional Requirements Specifications
- ⊕ HMI programming
- ⊕ PLC programming
- ⊕ OIT programming
- Custom reports
- Telemetry /Network configuration and testing
- Operation and Maintenance training
- Custom control panels
- + FAT (Factory Acceptance Testing)
- ⊕ I/O Checkout and commissioning
- ⊕ SAT (Site Acceptance Testing)



Expertise

PCS has experience with industry leading automation hardware and software products including:

<u>Controllers</u>	Operator Interface
Allen Bradley: SLC 500 Series PLC-5 Series ControlLogix	Allen Bradley: PanelView Classic PanelView Plus GE Fanuc/Intellution:
CompactLogix MicroLogix Flex I/O	Fix32, iFix iHistorian
Control Microsystems: ScadaPack Series	Rockwell Software: RSView32 RSView32 SE
GE Fanuc: 90-x0 Series	Specter: Win911
Modicon: 984 Series Quantum	SyTech: XLReporter
Momentum Square-D: SyMax	Wonderware: InBatch InTouch InSQL

Industry Affiliations

PCS is a member of *CSIA* (Control & Information System Integrators Association) and *ISA* (The International Society of Automation).

PCS Technologies LLC

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Control system reliability and robustness are critical for plant operations, maintenance and long term value. Our reputation as solution providers is based on delivering quality control system integration services. Using a proven methodology and project management, quality systems can be delivered at a competitive price while fully meeting customer requirements, expectations and schedule. By consistently delivering quality and value, we hope to foster long term relationships with our Clients.

Our goal is to deliver reliable, cost effective *process control solutions*, using the best available *technologies* and engineering methods to meet our clients' long term needs.