



Ideas to Solutions

MATRIX

Control Engineering Inc.

VISION & PROFILE

Matrix Control Engineering Inc. is an Engineering Solutions company with a strong customer focus, specializing in Automation, Systems and Instrumentation to increase value for our clients. We have been providing value-added engineering services and solutions in Oil& Gas, Refinery and PetroChemical Industries.

WHAT MATRIX DOES

Detailed Design Engineering

Control System Services include :

- Hardware and Software Configuration
- HMI Design and Development
- Logic Configuration
- Third party Interfaces
- Hardware and Software Specification
- Technical Bid Evaluation and Selection of Control and Safety System
- Factory Acceptance Test

Instrumentation Engineering Services include :

- Field Instrument Specifications [Flow, Pressure, Temperature etc.]
- Field Wiring and Cable Tray Design
- Electronic and Pneumatic Instrumentation & Data Sheets
- Smart Instrument Configuration and Commissioning
- Custody Transfer Applications, Application Design, Commissioning and Documentation
- Analyzer System Application Design and Engineering
- Control Valve sizing and Selection
- Instrument Selection
- Instrument Sizing such as Orifice flow Calculations

Field Commissioning Services :

- Start-Up Supervision
- Instrument Calibration
- Loop/Wiring Checkout
- Logic & Configuration Verification & Testing

Functional Safety Services :

- Safety Instrumented Function Identification
- Safety Integrity Level (SIL) Assessment
- Safety Requirement Specifications
- Safety Instrumented Function Verification

WHAT MATRIX DOES

Front End Engineering Design for Instrumentation and Control systems

- Preparation of Instrumentation and Control System Specification and Design guidelines
- Technical Bid Analysis and Selection Assistance
- Cost Estimates
- Procurement Assistance

Customized Training Services

Intools Services

We use Microsoft Access to provide Instrumentation & Control System database. We have extensive experience in Intools™ to provide deliverables such as :

Instrument Index, Loop Drawing, Segment Drawing, Hook-up Drawing, Cable Schedule, Junction Box Schedule, Calculation Module, Process Data Module, Import and export of Data

Preparation of Commissioning Documents

- Construction Work Packages
- Procedure to Migrate from Old to new
- Update as built drawing such as P & ID
- Spare part Management

Foundation Fieldbus Design & Engineering

- Segment Design
- Application of Foundation Fieldbus Technology

Drafting Services

Documents such as P & ID, Cabinets Drawing, Instrument Plot Plans etc.

Manpower Placement Services

We also provide human resource to organizations according to client specifications



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