



**DYNAMIC**  
Measurement & Control Solutions, LLC



## DYNAMIC ENGINEERING SERVICES

One of the biggest areas we can assist you with is **engineering overflow**. At times, your business demands will create a resource or expertise shortage. **Dynamic can be an extension of your engineering team!** When you work with Dynamic, you get a team of engineers at your disposal to support your project deadline and requirements without compromising your company's priorities.

**Our typical design assistance involves electrical systems, control panel design, and PLC/HMI programming.**

### PROJECTS:

- Instrument and Component Specifications
- Instrument Hook-up & Standard Installation Diagrams
- Instrument Locations, Cable Tray Routing
- Junction Box and Cable Schedule with Material Take Off
- Logic Diagrams, Alarms & Safety Interlocks
- Plant Wide Power Distribution Drawings
- Motor Control Center and Electrical Panel Design
- Plant Lighting Schemes

When you partner with Dynamic, you have a team of engineers at your disposal to support your project deadline. We are equipped to collaborate with your engineering team or create a customized engineering solution for your project. Our engineering experience, capabilities, and tools offer a wide spectrum from simple to complex product development.

### PLC

- **Allen-Bradley:** PLC-5, SLC-500, MicroLogix, CompactLogix and ControlLogix
- **Modicon:** Quantum, Momentum, Compact
- **GE Fanuc:** Versamax, 90-30 series
- **Automation Direct:** Series 05, 06, 305, 405
- **Siemens:** TI505, S7-200, S7-300, S7-400
- **B&R:** System 2003, 2005, Power Panel
- **Mitsubishi:** Fx, AnSH
- **ABB:** Advant
- **DCS:** Emerson Delta V and Yokogawa CS 3000, Stardom

### SCADA

- **SCADA:** RS-View32, Fix 32, iFIX, Wonderware, Cimplicity, WinCC, Citect, Lookout
- **Historian Systems:** Ignition, iHistorian, INSQL, RSSQL
- **Operator Interfaces:** Panelview Plus, C-More, Maple, Xycom, Red Lion
- **Alarm Dialer Software:** Scadalarm, Scadatech

## APPLICATIONS:

Dynamic offers a wide array of engineering services to support your project requirements. Electrical Engineering Services and product development are our specialties. We can evaluate concepts from an engineering point of view, propose options, and help you prepare the product for market.

- **Factory Automation** – Assembly Lines, Machine Vision, Packaging, Conveying
- **Robotics** – Material Handling, Assembly, Welding, Positioning, Pick and Place, Painting
- **UL 508A Panel Design Component Specification**- Panel wiring & interconnections
- **Oil & Gas** - Compressor Stations, Skids, Burner Management
- **Water Treatment** - Desalination, UF, MMF, Dosing Skids
- **Wastewater Treatment** - MBBR, Clarifier, DAF, Filtration
- **Renewable Energy** - Biodiesel, Biogas, Solar
- **Industrial & Pilot Plants** - Chemical, Pharma, Biofuels
- **Utilities** - Boiler, Hot Oil, Chiller, Cooling Tower, HVAC
- **Design Submittals** - ISA Loop Drawings, FDS, PDF cut sheets, O&M Manual

## PROJECT ENGINEERING

Dynamic's Electrical Engineering Design Team is equipped to respond to your product requirements. We understand the critical nature of engineering deadlines and can reduce project design cycles. Every project receives our highest level of expertise and commitment to deliver an accurate, on-time project. Typical Deliverables:

### TEAM:

- Project Manager
- PLC / SCADA Programmer
- Project Engineer  
(Instrumentation / Electrical)
- Project Design Lead

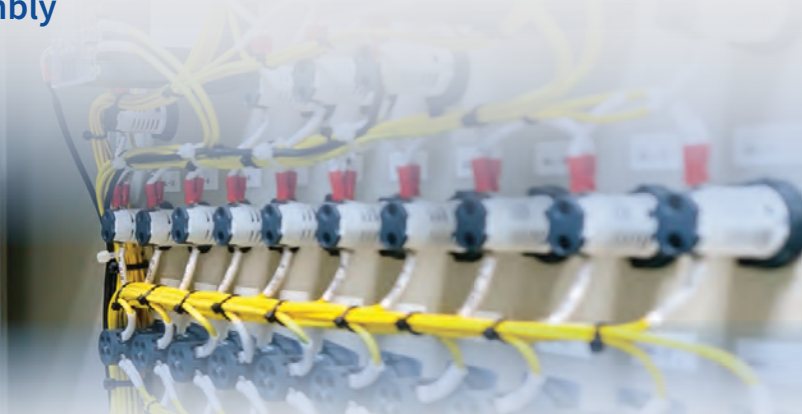
### GETTING STARTED:

- Project Implementation
- Proposal References
- Preliminary Schedule (Estimated Hours)
- Detailed Scope Description
- Price
- Terms and Contractual Agreement
- Explanations and Clarifications
- Preliminary Bills of Materials

### DELIVERABLES:

- Panel Layout – Front & Back with BOM
- Power Distribution Drawings
- I/O Wiring Drawings
- SCCR Calculation
- Interconnections or Loop Wiring Drawings
- Electrical Load Calculations
- Heat Dissipation Calculations
- Testing documents for panel testing, loop check sheets, instrument calibration forms

We can also help with electro-mechanical assembly and outsourced contract manufacturing.



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