



**Wunderlich-Malec**

*Engineering | Systems | Services*

*Engineering Solutions*  
*Since* **1981**

**Employee owned. Customer committed.**



*Advanced engineering solutions for diverse vertical markets*



## Certifications

-  ETAP – Systems Integrator
-  GE – Premier Solution Provider
-  Honeywell – Diamond System Integrator
-  ICONICS – Gold Level Certified System Integrator
-  Inductive Automation – Certified Integrator
-  Microsoft – Certified Partner
-  OSisoft – OSisoft PI, Solution Partner
-  Rockwell – Recognized System Integrator
-  Schneider Electric – Alliance Partner
-  Siemens – Solutions Partner/Smart Grid Solutions Partner
-  TATSOFT Tatsoft – Partner
-  Wonderware – Endorsed System Integrator
-  YOKOGAWA ♦ Yokogawa – Systems Integrator

## System Experience

ABB Bailey Infi90/800xA  
Emerson DeltaV/Batch  
GE Series 9030/9070/PAC Systems RXI, RX3i, RX7i  
GE-IP Proficy HMI/SCADA – iFIX, Cimplicity, Historian, WorkFlow, Portal  
Honeywell Experion LX/PKS, HC900/MasterLogic  
ICONICS Genesis 32 & 64/Hyper Historian/BizViz  
Microsoft SQL Server  
Modicon 984/Quantum/M340  
Novatech D3  
OSisoft PI  
Rockwell 2/3/5/SLC/ControlLogix/MicroLogix/  
GuardLogix/FlexLogix/CompactLogix  
Rockwell FTView/Panelview/FactoryView/PlantPAx  
AssetCentre, Historian, and VantagePoint  
Schneider Electric – Plantstruxture  
Siemens S5/S7/PCS7/TI545, 555, 565/APACS/APT/  
TISOFT/APAC+  
Wonderware InTouch/InBatch/InSQL, System Platform  
Yokogawa CENTUM, STARDOM

## Markets Served

Wunderlich-Malec has technical knowledge and experience in many markets, including:

*Chemical/Petrochemical*  
*Commercial/Institutional*  
*Data Centers*  
*Energy Management Solutions*  
*Environmental Monitoring & Reporting Solutions*  
*Food & Beverage*  
*Gas, Oil & Biofuels*  
*Governmental/Regulatory*  
*Integrated Security*  
*Life Sciences*  
*Manufacturing*  
*Material Handling*  
*Microelectronics*  
*Mining*  
*Power Generation*  
*Power & Process Optimization*  
*Power Management Systems*  
*Pulp & Paper*  
*Supervisory Control & Data Acquisition (SCADA)*  
*Transmission & Distribution*  
*Utilities (Electric & Gas)*  
*Water/Wastewater*

This broad range of industry experience positions Wunderlich-Malec as an industry leader in delivering complex engineering solutions to vertical markets around the world.



## *Employee owned. Customer committed.*

*Wunderlich-Malec has successfully designed and implemented engineering solutions for commercial, industrial and government clients throughout North America and abroad since 1981. The key to our longevity and continued success is our adaptability combined with the depth of our talent. By offering a comprehensive menu of essential services in combination with a continuous willingness to engage in new challenges, we attract and retain some of the most skilled and sought-after talent in the industry.*

*Wunderlich-Malec is one of the largest and most well-established engineering companies in the United States, with offices throughout the U.S. and more than 370 professionals on staff. We're confident that our qualified staff has the knowledge, experience and talent to create and deliver the solutions you need for your facility, process and operation needs.*



## *EPC (Engineer/Procure/Construct)*

Wunderlich-Malec's experienced engineers are trained to deliver practical solutions that meet your strategic and tactical needs. We can assist your existing team with our specialized talent or assume full project management responsibility, reducing your risk and exposure while streamlining project execution.

- » *Construction management*
- » *Engineering*
- » *Factory testing*
- » *Installation services*
- » *Purchasing and delivery*
- » *Value engineering*
- » *Calibration/tech services*
- » *Startup and checkout*
- » *Training*
- » *Control system fabrication*
- » *Process skid fabrication*
- » *Sustaining support*



- » *PLC/DCS programming*
- » *Industrial network/fieldbus design*
- » *ISA-88/95/Batch programming*
- » *Installation and operational qualification*
- » *GAMP5 guidelines*
- » *Advanced control and process optimization*
- » *Control panel design and I/O schematics*
- » *Instrument sizing and selection*
- » *Safety system design and SIL calculations*
- » *Data collection/process reporting*
- » *Factory acceptance testing*
- » *Site acceptance testing*
- » *Concept planning*
- » *Project database development*
- » *Sequence of operation documents*
- » *PFD/PID/Loop documentation*
- » *Startup/commissioning services*
- » *Sustaining support services*

## *Process Control*

Providing systems integration and engineering services for Process Control continues to be the core of Wunderlich-Malec's business model. Our projects range in scope from turnkey electrical and control system design, to installation of small DCS and PLC upgrades, to larger multimillion-dollar green field projects, as well as on-call service and support contracts. With the introduction of Wunderlich-Malec's Advanced Process Control (APC) software, we are able to provide additional service and support to help our customers improve production performance and product control. No matter how large or small the project is, it will receive the same high level of customer service and technical expertise that you have come to expect from Wunderlich-Malec.



- » *Arc flash and systems coordination studies*
- » *Energy cost control*
- » *Energy management solutions*
- » *Integrated security systems*
- » *Lighting design*
- » *MCC design*
- » *Motors, drives and controls*
- » *Multimedia systems*
- » *Power distribution*
- » *Power quality*
- » *Signal and life safety systems*
- » *Sustainable design*
- » *UPS and emergency power systems*

## ***Electrical/Power***

Wunderlich-Malec provides a full spectrum of electrical engineering services for commercial, industrial, utility, institutional, municipal and government clients. Our services include primary and secondary power systems, lighting, technology systems, low voltage and life safety systems, on-site power generation, medium-voltage and high-voltage protection and control relay systems, as well as specialized controls. We can support all phases of a project from conception to completion, including design, cost control, procurement, construction and project management.



## ***Manufacturing/Fabrication***

For more than 25 years the Wunderlich-Malec team has been building control panels as integral deliverables for our automation solutions. In addition to its Minnesota manufacturing facility, Wunderlich-Malec also has a manufacturing facility in Winslow, Maine. The focus of our manufacturing and fabrication business is to combine the latest technology with highly skilled personnel, allowing us to deliver higher quality and lower cost custom engineered and manufactured assemblies for control panels, power distribution equipment and process skids.

- » *Control panel fabrication*
- » *Relay protection panels*
- » *Transformer protection panels*
- » *Substation control panels*
- » *Generator protection system panels*
- » *Revenue metering panels*
- » *Substation switchgear*
- » *Modular integrated control enclosures*
- » *Control panel UL labeling*
- » *Process skid fabrication*
- » *Factory acceptance testing*
- » *Site acceptance testing*
- » *FDA compliance*
- » *Instrument calibration*
- » *Spare parts support*
- » *Complete assembly documentation*
- » *Utility Protection and Control (P&C) one-line development and implementation*

# Experience you can build on since 1981

Wunderlich-Malec provides customers with value engineering, quality system integration, and innovative panel and control house solutions.

As an experienced engineering company with offices throughout the United States, we are uniquely qualified *to deliver value-engineering services that lower costs, improve quality and accelerate project schedules.*

With over 400 experienced professionals, our team is one of the largest and most well-established engineering, system integration and process automation providers in North America.

## Centers of Excellence

