

## Your Guide to Industrial Automation

### Safe Solutions. Reliable Systems. Sustainable Results.

Hargrove Controls & Automation provides our clients turnkey solutions for plant automation, safety systems, the process safety lifecycle, industrial OT cybersecurity, machine safety, panel design & fabrication, and industrial digitalization. We foster a culture of safety that cultivates quality throughout the project lifecycle while leveraging industry best practices.

Hargrove is a Team of companies that began with Hargrove Engineers & Constructors and includes Hargrove Controls & Automation, Hargrove Life Sciences, Hargrove Equipment Solutions, and Tormod. We have the large company capabilities and the small company responsiveness to streamline turnkey projects, reduce risk, and deliver sustainable results.



## Controls & Automation Services

- Legacy Control System migrations, upgrades & modifications
- Control System Integration
- Process Control Design & Automation
- Sequential Logic Programming
- ISA-88 Batch Programming
- Process Hazard Analysis, SIL Calculations, Safety Requirements Specifications, and SIS Logic Solver Programming
- Cybersecurity, IT/OT/IloT, process control network design and architecture, & virtualization, s95 enterprise integration
- Process IT Services including Wireless, LAN, Routing, Domain & Server Implementation and Maintenance, Security Audits
- UL-Certified Panel Design, Fabrication, & FAT
- Process Data Historians
- Machine Safety Risk Assessments & Safety Requirements Specifications
- Asset Performance Management (APM), Advanced Process Control (APC), and Manufacturing Execution Systems (MES)
- Industrial Digitalization and Industry 4.0 solutions
- Smart Instrumentation (SPI/ INtools, AVEVA) database administration & development for projects, consulting, & training
- Turnkey Projects
- GAMP, GMP, & related Software Development Life Cycle Experience
- Startup & Commissioning Services
- On-Call Support Services and Embedded Staff to Supplement your Automation Team
- MAC Services & System Staging Projects
- Robotics for Assembly Line & Packaging
- Customized Training

## Vendor Agnostic

Because we do not represent or distribute any specific brand or manufacturer of HMI or Historian products, our Teammates can evaluate, integrate, customize, and troubleshoot multiple industrial control solutions.

## Process Safety Compliance

Our TÜV Rheinland Certified Process Safety Team has a thorough understanding of industry best practices and has experience in all phases of the safety lifecycle to customize safety solutions to create a safe, secure, and compliant facility. Our Team designs and implements safety systems for the process industries that adhere to client and ANSI/ISA standards.

## Panel Fabrication

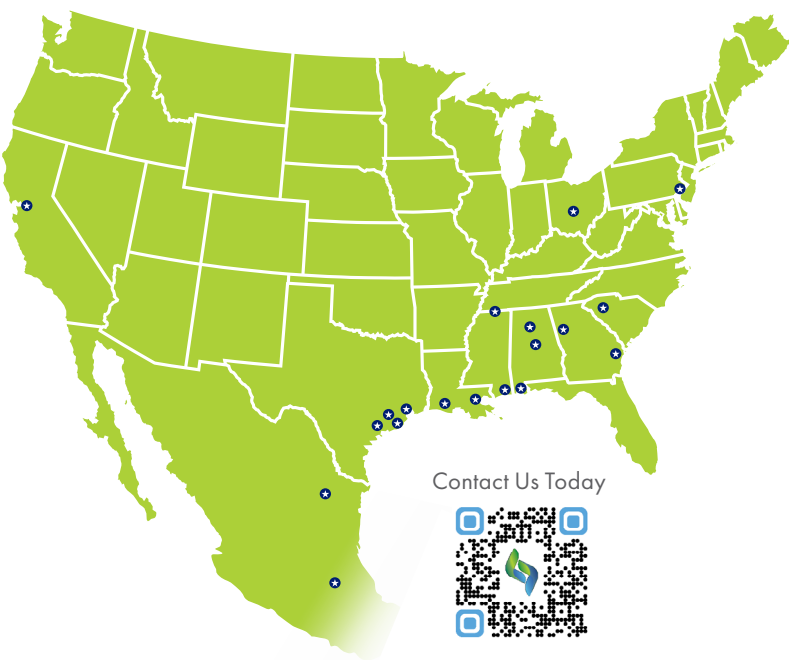
Our certified UL 508A industrial, in-house panel fabrication and staging facility has the capability of designing and building to your specific needs. Our Team provides a seamless design process and complete solution and have experience with PLC/DCS panels, AC/DC drive panels, breaker control panels, process instrumentation panels, pneumatic and electric controls, control room consoles, terminal boxes, acceptance testing and documentation.

## Platform Experience

- DCS – Honeywell TPS/TDC and Experion, Emerson DeltaV, Rockwell PlantPAx, Siemens PCS7 & PCS neo, ABB Ability 800xA & Freelance, ABB Ability Symphony Plus / Bailey INFI 90, ABB (Taylor) MOD300, Yokogawa CENTUM 3000 / VP, Schneider Foxboro I/A & EVO, Valmet (NovaTech) D/3
- PLC – Rockwell Allen Bradley, Siemens, Schneider Modicon, ABB AC500, Omron NX / CJ / SYSMAC, Opto 22, Emerson (GE) RX7i / Series 90 / VersaMax, B&R X20, Honeywell ControlEdge / MasterLogic, Automation Direct CLICK / Productivity / DirectLogic / Do-more, Beckhoff
- HMI – Rockwell FTView / Optix, Siemens WinCC / TIA Portal, AVEVA (Wonderware) Intouch / Citect, GE Proficy / CIMPPLICITY / iFix, Inductive Automation Ignition
- I/O – Traditional, HART, ASi Bus, PROFIBUS, PROFINET, DeviceNet, Foundation Fieldbus, Modbus, Modbus TCP, EtherNet/IP
- SIS – HIMA HIMax / HIMatrix / HIQuad, Schneider Triconex, Siemens (APACS) Quadlog, Siemens SIS, Yokogawa Prosafe, Rockwell Triplex / ControlLogix for SIL 2 / GuardLogix, Honeywell Safety Manager / FSC, Emerson DeltaV SIS
- MES – ABB MOM/MES, AVEVA MES, GE Proficy, Rockwell Plex & FactoryTalk ProductionCentre, Sepasoft (Ignition) MES Siemens Opcenter
- Plant Historian – Aspen IP.21, AVEVA (OSI), PI / (Wonderware) Historian, Rockwell FT Historian, GE Proficy Historian, IBA



## Where We Serve



UL 508A / 698A

