Discrete Manufacturing

As a leading system integrator, Hargrove Controls & Automation provides simplified solutions for our clients. Whether in new or existing facilities, our Teammates specialize in control strategy development and implementation, as well as migrating legacy systems to new platforms. Based on your needs, our Team will operate as an independent System Integrator or with the full complement of our global EPC firm.

Hargrove Controls & Automation provides multi-discipline automation services as a Main Automation Contractor (MAC) including PLC/HMI controls, servo/VFD motion control, vision systems, robotics, industrial IT/OT system integration, custom object oriented programming, database programming, and machine safety consulting services by TÜV Rheinland Functional Safety Engineers. Our services extend to implementing MES Systems capable of leveraging predictive maintenance and artificial intelligence to increase efficiency and reduce cost. Providing a complete solution, our Team fabricates and installs panels, manages construction, and provides customized training for engineering, maintenance, and operations personnel. Our experience is extensive and spans a broad spectrum of platforms including Rockwell, Siemens, Schneider, GE, AVEVA, and many others.

Platform Experience

PLC
Rockwell Automation, Siemens, Modicon, ABB, Omron, GE, B&R, Honeywell

I/O
Traditional, HART, ASi Bus, PROFIBUS, PROFINET, DeviceNet, Foundation Fieldbus, Modbus, Modbus TCP, EtherNet/IP

Functional Machine Safety
Rockwell Automation, Siemens, Pilz, ABB

Motion
Rockwell Automation, Siemens, ABB, Schneider Electric, Yaskawa, GE, & more

Human Machine Interface
Rockwell Automation, Siemens, AVEVA Wonderware, Ignition, Schneider Electric, Citec

Historian
OSI PI, Aspen InfoPlus.21, AVEVA Historian, Rockwell FactoryTalk Historian, IBA, GE Proficy

Operational Technology
Cisco, Extreme Networking, Fortinet, Palo Alto, Microsoft Hyper-V, VMWare vSphere, Windows A/V Patching, Backup and Disaster Recovery
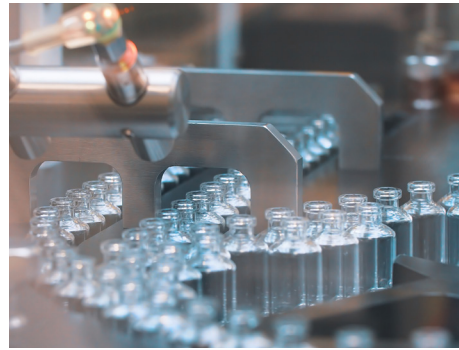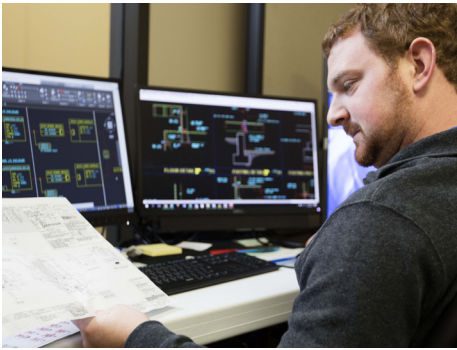
Database/Cloud
SQL, MS Access, Oracle, Azure, AWS, Aspen, AVEVA, Rockwell Automation, Siemens

Programming Languages
C#, Python, SQL, HTML, Java, PowerShell, and more

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Hargrove has experience with various platforms in regards to design, configuration, verification, and validation to ensure fit for purpose implementations. This has allowed us to develop long standing relationships with suppliers, while also maintaining a vendor neutral position in the industry. These capabilities combined with our versatility and knowledge across many discrete and robotic industry applications including steel, consumer goods, food & beverage, automotive, specialty material handling, and many more ensure our clients are provided with high quality industry leading solutions. We have Subject Matter Experts (SME) in several system platforms to ensure we implement the latest best practices and lessons learned.

Whether the need is troubleshooting, optimizing/modifying a system, or implementing a project, our team has the knowledge & experience to implement quality solutions while safely reaching your goals.

Services Performed

- Machinery Safety Risk Assessment
- PLC Design & Configuration
- Upgrades & Migrations
- Functional/Design Specification Development
- High Performance Graphics
- Programming Standards Definition
- SCADA Systems Design & Configuration
- PL / SIL Calculations
- Machine Safety Verification and Validation Documentation
- PL / SIL Rated System Design
- Machine Safety Programming

- Project Management
- Variable Frequency Drive Tuning
- Vision System, Bar code reader, & RFID Configuration
- Robotics
- SQL/Historian Production Reporting/ Dashboarding
- Commissioning & Startup
- ANSI/ISA-88 Batch Systems
- GAMP/SDLC Project Execution
- cGMP Site Support
- Engineering, Operations, & Maintenance Manuals & Training

- Custom Plant Application Development & Support
- SAP/Plant Information Integration
- Cybersecurity Perimeter Defense & Monitoring
- Network Architecture Design & Implementation
- Active Directory Domain Integration
- Virtual & Physical Server/PC Builds
- Firewall & Network Switch Programming
- Remote Access Solutions
- IOT, Edge, & Mobile Device Integration
- Safe Distance Calculation / Verification

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