



INTEGRATED CONTROL SYSTEMS SOLUTIONS

CONTROL SYSTEM SERVICES TAILORED TO YOUR NEEDS

With a comprehensive UL 508A-certified manufacturing facility and a team of highly skilled engineers, ACS stands out as a full-service authority in process control systems.

Specializing in both Programmable Logic Controller (PLC) and Building Management System (BMS) services, we bring a wealth of experience to seamlessly integrate control solutions tailored to your industrial facility needs.

The ACS team offers you expertise across diverse manufacturer hardware and software platforms, including safety systems. Our industrial automation services span a broad spectrum, catering to various industries encompassing research and development as well as manufacturing.

ACS is your reliable partner for integrated solutions, delivering both hardware and software excellence to meet your unique controls requirements.

PLATFORMS

ACS works with a diverse array of industrial automation platforms, with deep experience customizing both hardware and software. As a product-agnostic partner, we work seamlessly across platforms, ensuring the optimal selection to meet each client's unique needs and preferences.

- Siemens Solution Partner
- Rockwell Automation Partners Network - Silver System Integrator, including Allen-Bradley hardware and software solutions.
- NI™ - Systems Integrator Partner
- Mitsubishi - Diamond Partner Systems Integrator

MANUFACTURING AUTOMATION: ROBOTICS AND CONVEYANCE

We provide end-to-end manufacturing automation solutions. We design, build, and commission systems that meet your specific business and safety requirements. Our clients receive a fully customized and integrated solution from a single, trusted source.

ACS excels in fully customized conveyance and robotic systems, both for assembly and palletizing. Clients come to our in-house fabrication shop to see first-hand how their robotic and conveyor systems operate before we install them at their facility.

The industrial automation team collaborates closely with our machine design group, offering end-to-end services from designing robots to programming and hardware implementation. This integrated, single-source approach ensures a seamless and efficient manufacturing process for our clients.



CONTROL SYSTEMS INTEGRATION

ACS offers complete turnkey control systems integration, resolving the intricate challenge of harmonizing communication protocols between PLC and BMS. From design to commissioning, we deliver fully integrated solutions.

PLC SAFETY SYSTEMS

ACS is a leader in industrial automation safety innovation, designing innovative mechanical solutions that reduce risk, instead of relying too heavily on PPE, which can only reduce harm.

Our functional safety-certified engineers take a meticulous approach to achieve specified performance and safety certification levels that align with your business objectives and risk tolerance.

RETROFITS

When companies come to us to retrofit an assembly or pallet line to accommodate product changes, they often want the modifications to meet ISO safety standards. Older conveyors and machinery are particularly in need of safety reviews.

Our team conducts thorough risk assessments, followed by a report with our tailored modification recommendations to raise the facilities or line's safety standards.

SAFETY EXCELLENCE: A CASE STUDY

Faced with the challenge of ensuring safety in a high-voltage environment, ACS designed a system that meets the stringent safety certification of Performance Level D, Category 3 (PLD Cat 3). The engineers devised a safety system that combined advanced mechanical and PLC controls that block users from touching any high voltage components.



PROCESS AUTOMATION: RESEARCH AND DEVELOPMENT

ACS provides customization in both PLC and BMS for unparalleled process automation throughout the facility and integrated test cells.

Working with a variety of leading hardware and software platforms, our engineers design both fine process controls with PLC systems as well as broad building controls for a comfortable and energy-efficient environment, managed through a BMS system.

We have deep experience navigating the intricacies of process system integration, delivering tailored solutions that help you unlock new possibilities and optimize your operations.

We provide turnkey and individual deliverables encompassing:

- Front End Planning [FEP]
- Design and engineering
 - Risk assessments
 - Cyber security consulting
- Facility and equipment integration
- Program management/project management
- Acceptance criteria
- Commissioning
- Turnover