audubon

Automation + Controls

Secure, reliable solutions for modern industrial operations





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WHO WE ARE

Designing, building, and sustaining what matters

Founded in 1997, Audubon Companies provides engineering, procurement, construction (EPC), consulting, fabrication, and operations and maintenance (O&M) services to energy and industrial operators across the globe. We bring agile, collaborative project solutions—dedicated in every phase to safety, quality, and results. For our clients and communities, Audubon designs, builds, and sustains what matters.

Connecting and securing digital infrastructure for the future

Our automation and control services modernize critical infrastructure with secure, reliable processes and technologies. The Audubon team has expertise across all system types, as well as decades of field experience in energy, power, and manufacturing facilities. We focus on the unique challenges and goals of every automation project to deliver a fully custom solution—and results that matter.

- Conceptual design + feasibility
- Due-diligence
- Technology selection
- Front-end engineering + design (FEED)
- Detailed engineering + design
- Project management
- Fabrication
- Construction
- Commissioning + startup
- Owner's engineering

EPC + MAC

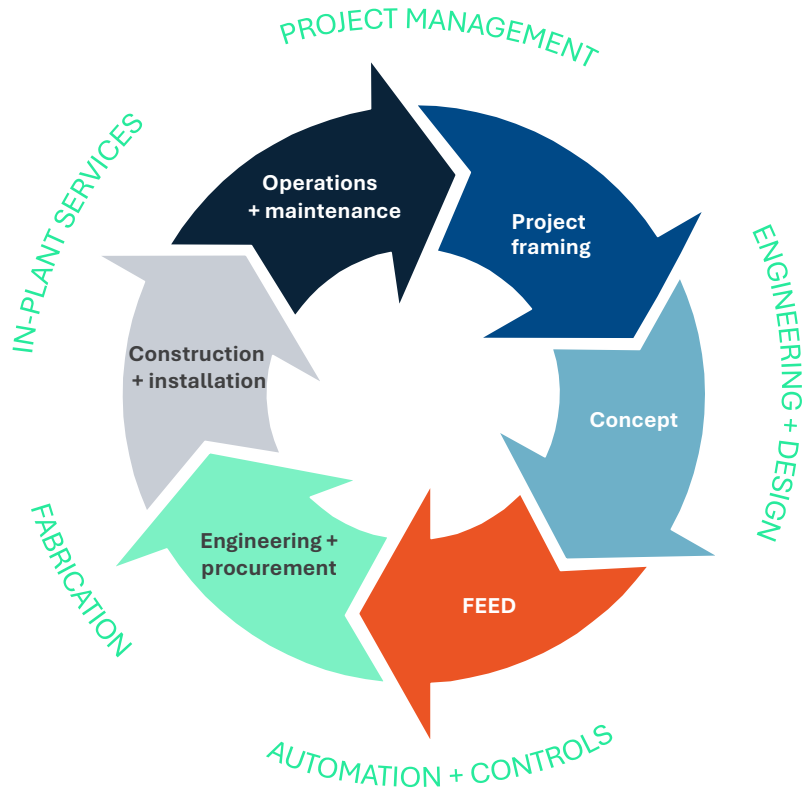
One partner. One contract. Fully integrated delivery from start to finish.

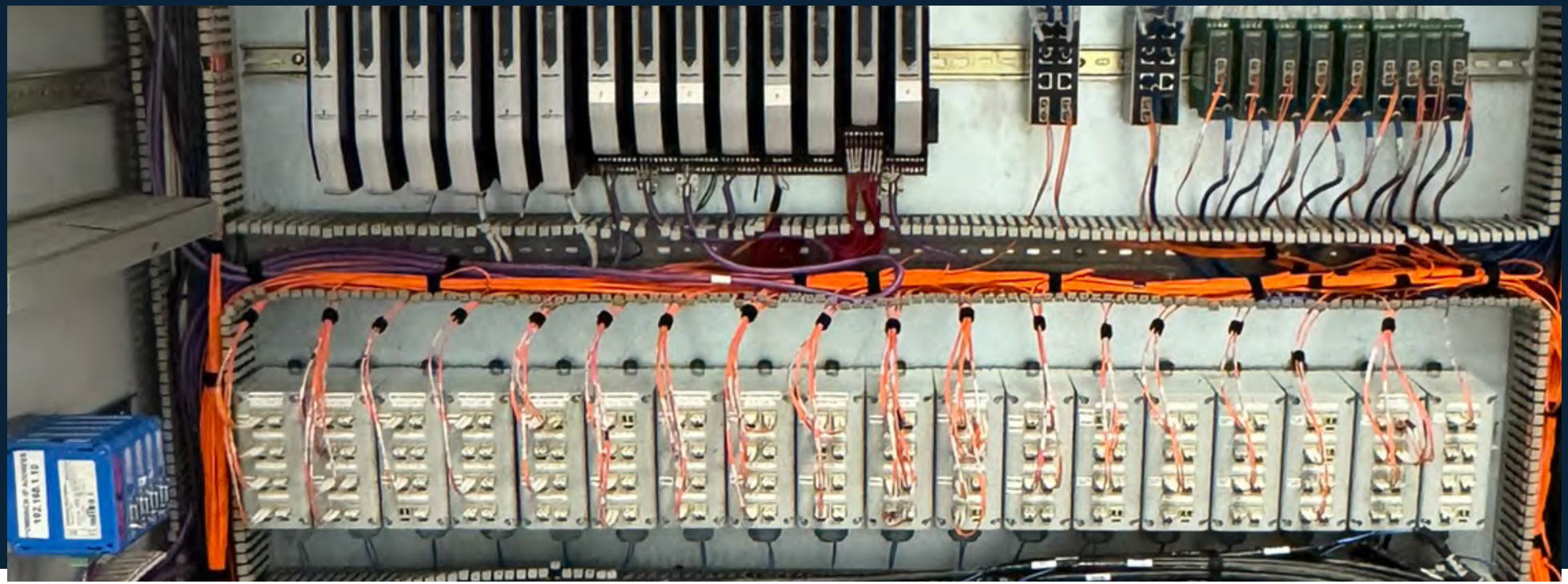
Clients who leverage Audubon's full service set as EPC partner or main automation contractor (MAC) experience value-adding benefits—cohesive project execution, single-source expertise and training, and whole-system confidence over the facility's lifetime.

WHAT WE DO

Full-lifecycle capabilities

Audubon has specialized capabilities across our automation team, from early assessment and engineering through in-house fabrication and site installation. This broad skillset allows us to meet operator needs through the full project life cycle, ensuring efficiency and proficiency at every phase. And with diverse vendor experience, we have the right people for your particular control system.





WHAT YOU CAN EXPECT

Superior system expertise

- Knowledgeable team
- Vendor independence
- Fast response + resolution
- Flexible, 24/7 support
- Transparent pricing
- Structured execution
- Minimum downtime

OUR SOLUTIONS

Operational technology + cybersecurity

Your process control network (PCN) is the baseline for business performance. Audubon fortifies industrial operational technology (OT) and delivers robust, stable PCNs that minimize cyber risk and boost network performance. With in-depth knowledge of PCN function and automation and cyber industry standards, we successfully manage cyber risk with safety, reliability, and productivity as top priorities.

Proven cybersecurity framework:



IDENTIFY

- Cybersecurity + risk assessment
- Asset management
- OT philosophy + procedures
- Network review + design
- Secure cloud + VPN



PROTECT

- Vulnerability management
- Malware protection
- Access management
- Network segregation
- Firewall analysis + configuration



DETECT

- Managed services
- Cybersecurity monitoring
- Event + log management
- Data acquisition + analytics
- Intrusion detection + prevention
- Threat intelligence



RESPOND

- Containment
- Mitigation
- Digital forensics



RECOVER

- Backup
- Restoration
- Business continuity

OUR SOLUTIONS

Distributed control systems

Automating industrial processes with proven leading technologies increases your facility's reliability and productivity—and reduces operational and maintenance costs. Audubon brings the most intelligent, most cost-effective solutions for distributed control system (DCS) upgrades, integrations, migrations, and installations.

The Audubon automation team is committed to the best-fit control solution for each operator, each site, and each project. Our DCS services start at engineering and design and run all the way through installation and commissioning, so you have the right partner no matter your project stage.

DCS expertise

- Obsolescence management + modernization
- System architecture
- Configuration + programming
- Instrumentation + input/output (I/O)
- Motor controls + variable frequency drives (VFDs)
- Alarm management

Foxboro by Schneider Electric

PlantPAx Distributed Control System

YOKOGAWA

Honeywell

DELTAV

Alarm management

Get your team back to the work that matters.

Traditional processes are too expensive, have too many stakeholders, disrupt operations for months, and end up in analysis paralysis. Our rationalization-in-the-run eliminates nuisance alarms, achieves ANSI/ISA 18.2 compliance, and reduces time and cost inefficiencies.

01 Philosophy development
02 Identification + classification
03 Rationalization
04 Detailed design
05 Implementation
06 Operation
07 Maintenance
08 Audit
09 Management of change

OUR SOLUTIONS

Programmable logic controllers



From individual equipment packages to plantwide solutions, Audubon designs, integrates, modernizes, and supports programmable logic controller (PLC) systems with minimal disruption to ongoing operations. Our approach to PLCs is intentionally proactive. We help you understand your installed control-system assets, properly prioritize risk, and develop a practical implementation roadmap.

Control-system modernization with confidence:

Strategic planning | Expert engineering | Secure integration | Proven field execution



OUR SOLUTIONS

Supervisory control + data acquisition

Your operations depend on fast, reliable access to process information. Audubon's supervisory control and data acquisition (SCADA) solutions connect site-floor data with site management, allowing you to monitor and respond with confidence. With a clear and useable interface and accurate data capture, industrial facilities can achieve real-time control and long-term improvement.

SCADA expertise

- Terminal automation system (TAS)
- Human-machine interface (HMI)
- Historian + data analytics
- Remote terminal units (RTUs)
- Standardized, high-efficiency graphics
- Remote access + mobile notifications
- DCS integration

Results that matter

- Connected automation
- Operational visibility
- Quick, confident decisions

canary · VTScada · GE VERNOVA · ICONICS · AVEVA · Ignition



OUR SOLUTIONS

Advanced process control + optimization

Maximize production.
Improve process stability.
Reduce energy consumption.

- Regulatory assessment
- Loop optimization + loop tuning
- Instrumentation + measurement evaluation
- Business-case development
- Functional design specification (FDS)
- Technology evaluation + vendor selection
- Performance audit + benchmarking
- APC system architecture
- Operational best practices

OUR SOLUTIONS

Functional safety life cycle

At Audubon we know your safety instrumented system (SIS) is a complex, critical layer of safety protection. We provide SISs that address real-life challenges with practical solutions for aging infrastructure, evolving compliance expectations, shutdown complexities, documentation gaps, and control-system integration. Our team has experience in the industry's leading technologies and latest regulations. We plan and program the entire safety life cycle with discipline, ensuring your facility maintains a safe state when it matters.

Functional safety expertise

- Functional safety assessment (FSA)
- Safety requirements specification (SRS)
- Safety integrity level (SIL) selection + verification
- Probability of failure on demand (PFD) + spurious trip rate (STR)
- Proof test procedures
- High-integrity pressure protection system (HIPPS)
- Total system management according to ISA/ANSI 61511

Triconex by Schneider Electric · DELTAV · Honeywell Safety Manager · ProSafe-RS · AADvance

Complete process safety management

Prevent risk to your site and your people.

Especially when faced with aging equipment and workforce challenges, trustworthy process safety management (PSM) gives operators assurance of mechanical integrity and site safeguards. We design and implement complete PSM solutions according to OSHA 1910.119 and EPA RMP and fit to the unique equipment and processes of each facility— with maximum protection and minimum downtime.

- Process hazard analysis (PHA), hazard + operability (HAZOP), layer of protection analysis (LOPA)
- Management of change
- Mechanical integrity programs Procedures, training, competency
- Incident investigation + root-cause analysis
- Compliance audit, gap assessment, readiness review



20,000-ft² climate-controlled integration
24,000-ft² fabrication + storage
On-site development laboratory

OUR SOLUTIONS

Audubon Technology Center

At the Audubon Technology Center in Houston, Texas, we are designing, integrating, and building the electrical infrastructure that matters for energy and industrial sites. With capabilities from configuration to factory acceptance testing (FAT), the center is dedicated to bringing innovative, reliable control solutions for complete oversight and robust security.

In-house technology, integration, + fabrication

- Control panels: UL508A/121201
- Analyzer systems
- Modularized power distribution
- Network + power racks
- Fiber panels, relay panels, pneumatic panels
- Bus stops
- Buildings:
  - Power distribution center (PDC)
  - Motor control center (MCC)
  - Remote instrument enclosure (RIE)

audubon

We design, build, and sustain **what matters.**

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