ATLAS
Operational Technologies

Your Operations,
Only Better.

Statement of Qualifications

Electrical, Instrumentation, and Control Engineering, Programming, Integration & Support

Atlas OT is a **Master System Integrator** with **over 100 years** of combined engineering and technical expertise in control systems and industrial automation. Supporting integration across **all controls platforms**—from engineering whiteboard to executive dashboard—delivering solutions that are **CapEx Conscious and OpEx Optimized** for maximum ROI.

We support end-users, engineering firms, and contractors across new builds, modernizations, and ongoing maintenance. Our unique **partnership-focused approach**, including collaboration with competitors when needed, fosters win-win outcomes.

Atlas OT is dedicated to delivering safe, scalable, and future-ready systems through expert guidance, strategic deployment, and reliable support.





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What is Operational Technology?

Operational Technology (OT) is the backbone of industrial operations. The systems, hardware, and software that control and secure real-world processes and equipment. Unlike Information Technology (IT), which manages data and communications, OT bridges the digital and physical worlds. It keeps manufacturing lines productive, power grids stable, and critical infrastructure safe and efficient.

Atlas OT specializes in the Design, Engineering, Programming, Networking, Instrumentation and Controls for your critical facilities

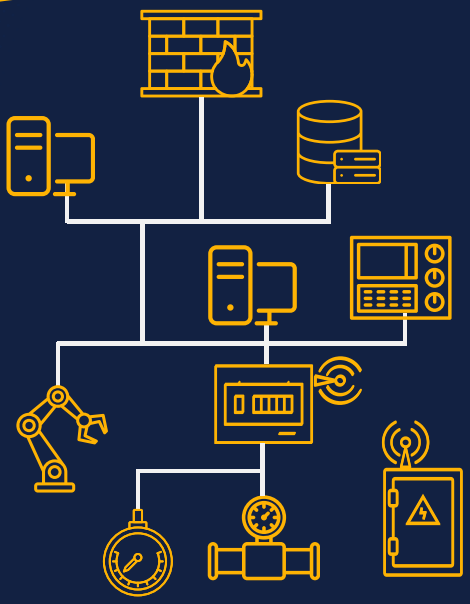
Information Technology (IT)



Level 5 World Wide Web Cloud, Vendor Access

Level 4 Business Systems, ERP, Modeling

Operational Technology (OT)



Level 3.5
DMZ - Firewall

Level 3 Batch Management, MES, ERP, Cental Gateways

Level 2 HMI, SCADA, Local Historian

Level 1 PLCs RTUs, Intelligent Devices

Level 0 Physical Layer Devices Sensors, Actuators

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Atlas OT supports design, programming, procurement, and commissioning for these systems as well as long-term onsite and remote support for these assets. Atlas can also support OT/IT integration with secure data transfers to the IT stack, and providing real-time executive dashboards.

Atlas' focus on operational technology encompasses the instrumentation, equipment, networks, controllers, and operator systems that drive industrial and commercial operations. Atlas OT delivers secure, fully integrated systems, supporting network security up to the DMZ layer before handing off to your IT team for business system integration (ERP, accounting, cloud, etc.).

Safety Underlines Everything

Meeting the highest safety standards, Atlas OT internally performs regular safety training, drug testing, compliance audits. Additionally, at Atlas OT safety isn't an add-on— it's engineered into every system we design. Our automation solutions unite reliability, productivity, and protection to safeguard people, assets, and operations.

By integrating advanced control architectures and intelligent safety systems, we help industries achieve peak performance while meeting the highest recognized standards. Because in automation, safety is performance.

veriforce

ISN ISNetworld® MEMBER CONTRACTOR

SBE Recognized NAICS

COLORADO VERIFIED Small Business

541511 - Computer and Robot Programming
541512 - System and Network Integration
20628 - Computer Systems, Process Control
221121 - Electric Power Control

D-U-N-S #:12-902-6259

ISA

csia MEMBER

Our engineers understand not only **programming & networks**, but also **process, mechanical, and electrical systems** — enabling us to create and interpret control narratives, cause-and-effects, and sequences of operation holistically. This expertise allows Atlas OT to identify **process improvements, tuning opportunities, and advanced control solutions** that enhance performance and reliability.

Our Leadership

Atlas OT is one of the fastest growing System Integrators in the Rocky Mountain Region. Based on 2025 Control Engineering Magazine, Atlas OT qualifies as a System Integration Giant nationally!

Our leadership team brings nearly 100 years of Engineering expertise with projects ranging world-wide and across all major industries.



Aaron Pfeifer

Principal
Solution Architect and Partner Success

Colorado School of Mines – Chemical Engineering, Minor in Economics and Business.
Aaron is keenly focused on client ROI for their investments, strategic partnerships, and collaborative project execution. With a proven track record in system architecture, industrial networks, UL panel fabrication, and modernizing control platforms. His skills span PLCs, SCADA, DCS, ERPs, CMMS, BAS, and custom software development, with deep knowledge of both branded technologies and tailored business system integrations



Catherine Stierwalt

VP of Operations
Finance and Safety

Virginia Polytechnic Institute and State University - Mining & Minerals Engineering, Minor in Geology
Catherine is a results-driven operations and project management leader with 10+ years of experience optimizing processes, managing cross-functional teams, and delivering projects efficiently. Measured success across in AP/AR, accounting, procurement, inventory control, and compliance, with a strong focus on HSE programs. Skilled in SAP, AutoCAD, Zoho and advanced Microsoft Office.



Tyler Franzen

VP of Automation
Engineering Quality

Colorado School of Mines – Mechanical Engineering.
Tyler is a leading expert in Industrial Control System Automation with extensive experience in designing, programming, and implementing control systems across various industries. Demonstrated expertise with Emerson DeltaV DCS and FB3000 and Advanced Process Control. His key industry expertise spans Energy, Food and Beverage, Life Sciences, and Building Automation.





Joe Ricotta, PE

Principal Engineer
Technical Service Lead

Colorado School of Mines - MS and BS Engineering.
Joseph Ricotta, is a licensed Professional Engineer specializing in EI&C engineering, SCADA, telemetry, and control system integration for municipal and industrial facilities. His expertise spans PLC/RTU programming, HMI and SCADA development, instrumentation and control design, and radio, cellular, and fiber telemetry networks. Joseph brings a practical design-through-integration approach to developing reliable control systems and modernizing critical infrastructure.

ATLAS
Operational Technologies

Core Services



- Automation Consulting & Design
- Control System Integration
- EI&C Drafting & Design
- Lifecycle Support of Control Systems
- Electrical Gear & Instrumentation Procurement
- Control Panel Design & Procurement
- RTU / PLC Programming & Logic Testing
- HMI and SCADA Design & Deployment
- Lifecycle Support of Control Systems
- Project Management
- Staff Augmentation
- Building Automation Systems



- Designing phased migrations from platforms such as ICONICS to PlantPAx on Allen-Bradley PLCs
- Deployment of Stratus virtualized redundant servers to host new FactoryTalk View systems
- Transitioning HMI screens to PlantPAx standards without disrupting existing control logic
- Upgrading outdated SLC and CompactLogix controllers to newer versions with enhanced memory and compatibility for PlantPAx objects
- Redeployment and re-integration with SCADA systems post-migration

Design & Integrate Custom Control Systems

- Switchgear
- Motor Control Centers
- Transformers
- Panel Boards
- Disconnects & VFDs
- Instrumentation & Control Panels
- Radio Communication Systems
- Industrial Network Protocols (Ethernet, FieldBus, Profibus, Devicenet)

Strategic Technology Partnerships

Certified partnerships that strengthen design, delivery, and lifecycle support.

Recognized Integration Expertise

Our partner relationships reflect demonstrated technical capability across PLC, SCADA, BAS, industrial networking, and control-system integration platforms.

Access to Proven Platforms

Atlas OT supports industry-leading technologies for process automation, building systems, visualization, and industrial communications.

Flexible, Client-Driven Solutions

Our team remains brand-agnostic and selects technologies based on project requirements, owner standards, operational goals, and maintainability.

Faster Coordination & Support

Strong manufacturer relationships help streamline design coordination, technical support, and long-term lifecycle planning for client systems.

Atlas OT partners with leading automation, controls, and building-systems technology providers to deliver reliable, scalable, and well-supported solutions across municipal, industrial, and critical infrastructure environments. These partnerships strengthen our ability to design, integrate, commission, and support systems using proven platforms while maintaining a brand-agnostic, client-focused approach.

Alliance Registered Schneider Electric

Ignition Gold Certified Integrator

VYKON systems integrator by TRIDIUM

SYSTEM INTEGRATOR PARTNER PHOENIX CONTACT

RA BRONZE System Integrator A ROCKWELL AUTOMATION PARTNER

Technology & Partnerships

As a brand-agnostic integrator, we have built partnerships with the very best industrial automation Original Equipment Manufacturers (OEMs) to provide scalable delivery, special pricing, and technical support directly from manufacturers.

Industries Served

Cross-industry experience gives the Atlas OT team a unique, comprehensive perspective; offering you access to both emerging technology insights and proven best practices.

Oil & Gas

- Down Stream Refining
- Midstream Compression & Pipeline
- Upstream Well Pad Controls
- Regulatory Compliance

Water / Wastewater

- Water Reclamation Project
- Wastewater Treatment Plant SCADA Upgrade
- Wastewater SCADA Migration
- Headworks Modernization
- Staff Augmentation (Multiple)
- Chemical Precipitation Water Treatment:

Food and Beverage

- Bun and Muffin Bakery
- Kombucha Fermentation & Bottling
- Brewery Virtualized Distributed Control System & Brewing
- Health Supplement Packager

Mining

- Extraction, Processing & Material Handling
- SCADA & Control System Integration
- Environmental & Water Monitoring
- OT Modernization & Performance Analytics

Building Automation

- Open Systems & Integration
- Critical Utilities and Environmental
- Energy Monitoring & Facility Visibility
- OT / BAS Integration

Specialty Industries

- Materials Handling
- Geothermal and Emergying Energy
- Aircraft Brake Manufacturing
- Battery Recycling

Discipline	OEM Brand	Technology Platform
RTU / PLC	**Emerson**	Fisher ROC 800 FB 3000 PAC Systems
	Allen -Bradley Rockwell Automation	RS5/500/5000 PLC-5 SLC MicroLogix CompactLogix ControlLogix
	Schedier Electric	Modicon M340, M580, Quantum, 984 SCADAPack
	ABB	TotalFlow Spririt IT
	Siemens	S5 S7 ET200
OIT / HMI / SCADA	**Allen -Bradley / Rockwell Automation**	FactoryTalk View PanelView
	Schedier Electric	AVEVA InTouch System Platform
	Siemens	WinCC
	Inductive Automation	Ignition Vision Ignition Perspective
	Red Lion	Crimson FlexEdge Graphite
	Beijer	iX Developer X2 WebIQ
DCS	**Emerson**	DeltaV
	Siemens	PCS 7
	Rockwell Automation	PlantPAx
NETWORK AND DATA CONSOLIDATORS	**Beijer** **Phoenix Contact** **Red Lion** **Hirschmann** **TosiBox** **Cisco**	Protocol Conversion Wireless connectivity Cellular OPC UA, MQTT Modbus, BacNet, Profinet, HART, Fieldbus, DeviceNet
CONTROL AND ELECTRICAL PANELS	**ISO**	900:2015
	UL	67, 508A, 698A, 891, 1008
	Capabilities	Control, PCBA, Low Voltage Electrical, Switchgear, Panelboards, Sheet Metal Fabrication

Electrical & Control Panels



Better Together

Atlas OT has strategic partners with multiple UL Panel shops to ensure **high quality, consistency, and scalabilit**y for projects small and large.

Built to Industry Standards

UL 508A – Industrial Control Panels
Panels are designed and built to UL 508A standards ensuring safety, quality and compliance for industrial control equipment.

UL 698A – Industrial Control Panels for Hazardous Locations
Panels are designed for use in Class I, Division 2 hazardous location to help ensure safe operation in challenging environments.

Features of Atlas OT Control Panels

Atlas OT Control Panels include the following basic services and materials:

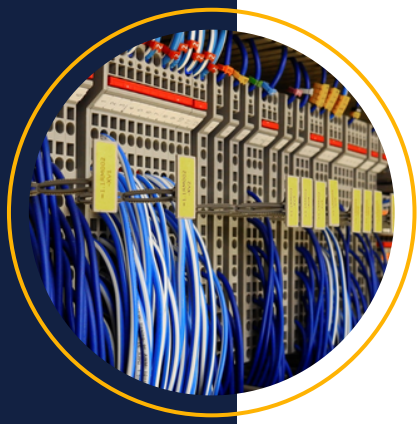
- Control Panel Schematics
  - Network Architecture, Physical Layout, Power Distribution, Termination Details, IO Card wiring, Loop Diagrams
  - Specification of UL Recognized or Listed Components, Name Plate information, Power and Heating Calculations
- Extended Manufacture Warranty
  - As a System Integrator Partner, most OEM products purchased by Atlas receive an extended 12 month warranty.
- Integrated Software / Factory Acceptance Testing
  - Fully integrated Acceptance testing including continuity, communications, and logic
  - Panels programmed by Atlas arrive fully configured and ready for Commissioning

ATLAS Operational Technologies

Water

Project Summaries

Headworks Modernization



- Replacement of Headworks SLC500 processor and IO with CompactLogix hardware with a two hour scheduled downtime
- Re-wrote logic in modern IEC 61131-3 programming languages, upgrading power distribution with UPS system
- Deployed the entire system in the field in under two hours while running
- Full system IO checkout, logic testing, and integration to ICONICS SCADA system
- Migration from 120V IO to 24V

Pump Station Modernizations



Modernization of three pump stations with new electrical gear including docking stations, transformers, panelboards, VFDs, Soft Starters and instrumentation. Submittal packages in coordination with Engineering and Contracting teams. Procurement of materials and commissioning support in collaboration with Owner, Engineer, Contractors and other System Integrator for gear and Control Integration as a team.

Staff Augmentation(Multiple)

- Troubleshooting motor drives, magmeters, blowers, PLCs, SCADA, Flow Computers, wireless, cellular, switches, services and industrial networks
- Further troubleshooting of process logic, P&ID tuning and advanced process control. Supporting systems included Rockwell Automation, ICONICs, Ignition, Phoenix Contact, and others.

Wastewater SCADA Migration



Architect migration plan for conversion from ICONICs SCADA system hosted on Allen-Bradley PLCs to a PlantPAx system. Deploy new Stratus redundant servers for virtualized services to host FactoryTalk for engineering and operations.

Converted ICONICs based screens to FactoryTalk View in PlantPAx styl . After SCADA migration, upgraded SLC and CompactLogix controllers to modern versions with additional memory for PlantPAx objects, then redeployed to the SCADA system.

Oil & Gas

Project Summaries



Downstream Refining

Extensive experience with DeltaV DCS migrations, upgrades, and support for facilities up to 67,000 barrels/day. Migration to remote IO platform and software updates, including custom open panel design and fabrication in compliance with refinery grounding standards (over 10,000 IO points) over several years.

- Deployment of virtualized control systems for online facility including software upgrades
- Deployment of over 36 nodes utilizing VRTX hardware with Hyper-V virtualization system
- Multiple platform upgrades, preventative maintenance, advanced process control projects, and alarm analysis



- Hardware modernization with over 10,000 points of new IO over three years to deploy latest control hardware and functionality utilizing CHARMs technology to replace antiquated hardware.
- Designed dozens of control panels and remote IO panels with redundant power distribution for line and UPS powered operations
- Plant expansion, with new processing units including system architecture, control panel designs, procurement, fabrication, programming, and commissioning

Upstream and Emissions Compliance

130+ Well Pad Field Modernization

Development of customer specific Emerson FB3000 standardized program using FBxDesigner and FBxNet for development. Work with Emerson throughout enterprise. Modernization of 130+ well pads servicing over 380 wells with scalable PLC / Flow computer template.

Remote programming support for standard program template for configurable deployments per pad. Configuration of per pad program based on client provided per pad engineering and Cause and Effect. Lab testing from flow computer, to HMI and SCADA.

Onsite turn-around, commissioning and startup support for over 200 I/O points in less than five days over the course three years.



As Found Control Logic Safety Verification

Review of as found field logic for 100+ pads to as existing Cause and Effect for validation of program safety review. Develop custom logic framework analysis tool to generate cause and effect. Compare of logic vs PHA approved Cause and Effect found numerous missing interlocks and operational discrepancies. Modified logic to meet latest C+E and redeployed to field.

OOOO Compliance

40 CFR Part 60 Subpart OOOOa/b/c

Automation Solutions for Performance standards for crude oil and natural gas facilities.

Control panels, SCADA, and automated reporting solutions for easy compliance

Leading FB3000 Expertise

Atlas OT is a leading expert on Emerson FB3000 Flow Computer, having been a key implementer of the first major rollout of the product line for a major oil producer. We develop custom applications for end-users in collaboration with Emerson technical services to create major program revisions and firmware updates.



Midstream and Pipelines

Lifecycle Support

Front End Engineering Design -
As found logic to generate Control Narratives, Platform Comparisons, and design support from Operations perspective

Capital Projects -
EI&C Design, Procurement, Programming, Construction Support and Commissioning

Long Term Support-
Operations support for upgrades, troubleshooting and cybersecurity



- DeltaV DCS and DeltaV SIS Gas processing facilities, including system architecture, engineering, programming, control panel design, fabrication, commissioning and ongoing support
- Cryogenic Compression facilities with Allen-Bradley Control System integrated with Wonderware Archestra HMI and SCADA. Scalable design and implementation for four process trains
- 70 MMcf/d natural gas facility system architecture, engineering and design including utilization of C1D2 control panel designs with remote IO installations.
- System standardization to new Ignition SCADA platform for midstream processing and pipeline. Development of a scalable system with automated tagging for new facilities based on location naming and aliasing for rapid deployment.
- Design and implementation of standardized packages for future expansions including control hardware, LACT packages and SCADA integration
- 200 MMSCFD Cryogenic Separation with Supplemental Rectification Compression (SRC).
- Crude Oil Stabilizer Skids including support of PFD, P&ID development, control philosophy Instrument Index, Allen Bradley PLC Programming, HMI Programming, Commissioning, Operator Training and Process Optimization
- Platforms: ABB, Emerson, Rockwell, Red Lion, Beijer, Wonderware, Ignition, and more.
- Specialized in RTU, PLC, and SCADA programming, industrial network design, and telemetry integration.
- Full system architecture and design, control panel design, Consent Decree compliance, as well as RTU, Flow Computer, PLC and SCADA programming and integration



Food & Beverage

Project Summaries

Health Supplement Packager

- Supplement manufacturer and producer transitioning from branding contracted goods to packaging their own product in house – providing products in powder, pill, and liquid form, requiring separate equipment for each packaging system. Needed support scaling up as they continue to add additional lines each year.
- Provided break fix and commissioning support for each system
- On-going support and engagement with design of new lines including communication integrations, commissioning, and system tuning.



Brewery Virtualized Distributed Control System & Brewing

- Brewery customer utilizing the largest virtualized DeltaV DCS in the world at time of installation.
- Deployed several redundant servers, redundant thin client network for dozens of operations, applications, and engineering stations
- Supported system migration without a full facility shut down, allowing for ongoing production during upgrades and migrations.

Kombucha Fermentation & Bottling

Contract brewing company for dozens of major kombucha tea brands offered across the United States and Canada. The facility utilizes multiple lines for brewing unique recipes, bottling and labeling all products for direct shipment to customers.

Provided integration support for new line commissioning including device re-wiring, communication validation, equipment synchronization and overall tuning support. Ongoing on call support and training for full customer ownership and control of their facility.



Case Study

Bun SCADA Batch Replacement & Business System Integration

The Challenges

- Equipment operated independently as standalone systems, lacking integration or visibility
- An outdated batching system caused frequent errors and high maintenance costs
- A lack of SCADA and operational monitoring limited troubleshooting and tracking
- Failing utility system controllers caused inconsistent cooling and heating
- Frequent downtime and inefficiencies in production with proofer, oven, and pan systems



Our Solutions

SCADA Implementation and Integration

- Parallel system deployment with existing system
- Developed a SQL database-driven platform to integrate all facility operations
- Created operator dashboards with remote access, alarm analysis, and troubleshooting tools

Batching System Upgrade

- Replaced the proprietary batching system with an open-platform solution with Recipes - on perpetual license
- Upgraded the PLCs and refined batching logic
- Enhanced recipe management, scheduling, and reporting capabilities

Network Modernization

- Designed and installed a fiber-optic backbone, connecting previously isolated systems
- Integrated equipment into a centralized control network for improved visibility and troubleshooting

Utility System Optimization

- Replaced failing controllers with CompactLogix PLCs
- Redesigned control algorithms for cooling water, glycol systems, and trough temperature management
- Enhanced SCADA integration for monitoring and control

Equipment-Specific Improvements

- Proofer and Oven Systems: Implemented temperature-based controls to reduce inconsistencies and optimize utility use
- Pan System: Replaced belts with magnetic systems and added sensors to prevent jams, reducing labor and downtime
- Thermal Oxidizer: Upgraded controls and interfaces to comply with air permitting standards
- Sifter System: Designed redundancy to prevent flour system failures and improve flow consistency

Results

50% Waste Reduction - Waste decreased from 30% to 15%, cutting production costs

18% Increase in Throughput - Product flow from ovens to bagging improved, increasing output

$100,000 Saved - Eliminated annual support contract for the proprietary batching system

Improved Reliability - Reduced equipment downtime and minimized manual interventions

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