ATLAS
Operational Technologies

Your Operations,
Only Better.

Statement of Qualifications

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

Atlas OT's team has over **100 years of engineering and technical services** supporting industrial and building automation and control systems. Atlas OT is your **Master System Integrator** supporting integrations of **all major control platforms** from the factory floor, to the executive dashboard.

Atlas OT advises and deploys systems that at **CapEx Conscious and OpEx Optimized** - ensuring the best ROI of your facility. We are proud to support End-users, Engineering Firms, Contractors on new builds, modernizations, and break fix support.

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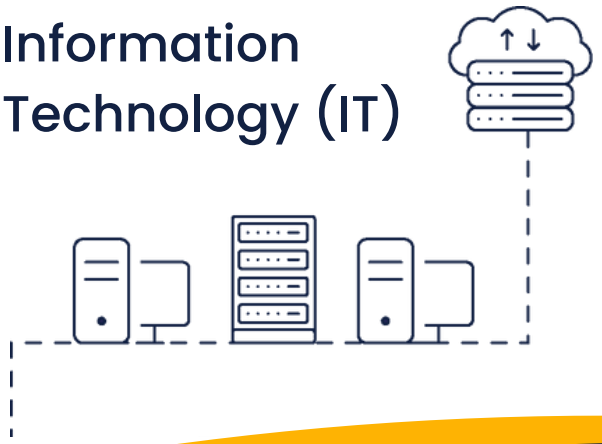
What is Operational Technology?

Operational Technology (OT) refers to the systems that monitor and control physical processes in industrial environments. Atlas OT specializes in the electrical, controls, and instrumentation that keep facilities running efficiently, enables secure data transfer from the field or plant floors to executive dashboards.

Information Technology (IT)



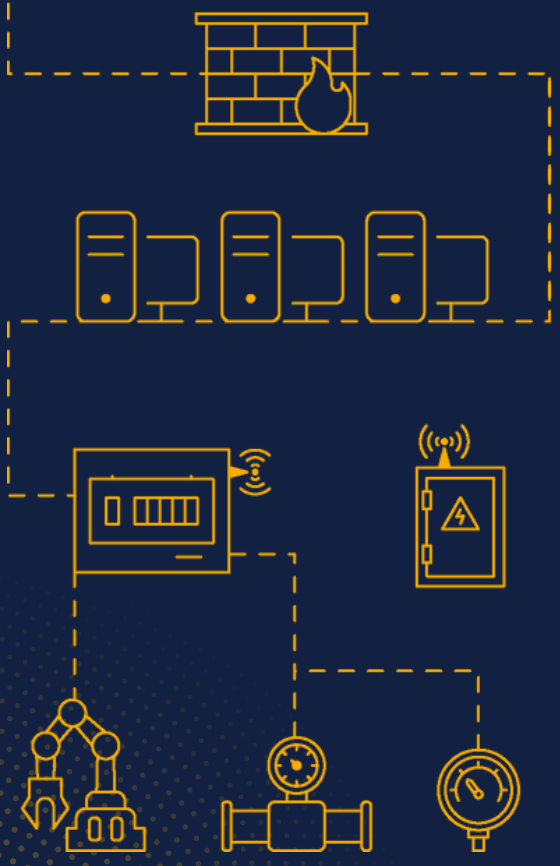
Level 4

World Wide Web

Level 3

Business Systems ERP & Modeling

Operational Technology (OT)



Level 2.5

Firewall / DMZ / Telemetry

Level 2

Operation & Engineering Workstations

Level 1

PLCs, Remote IO, RTUs

Level 0

Instruments, Valves, Conveyors, Cobots, Motors and more

Technology and Partnerships

As a brand-agnostic integrator, we've 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 has given extensive perspective to the Atlas OT team, giving you access to new technology insights, as well as tried and true best practices.

Oil and Gas Experience:

- Down Stream Refining
- Midstream Compression and Pipeline
- Upstream Wellpad Controls

Water / Wastewater Experience:

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

Food and Beverage Experience:

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

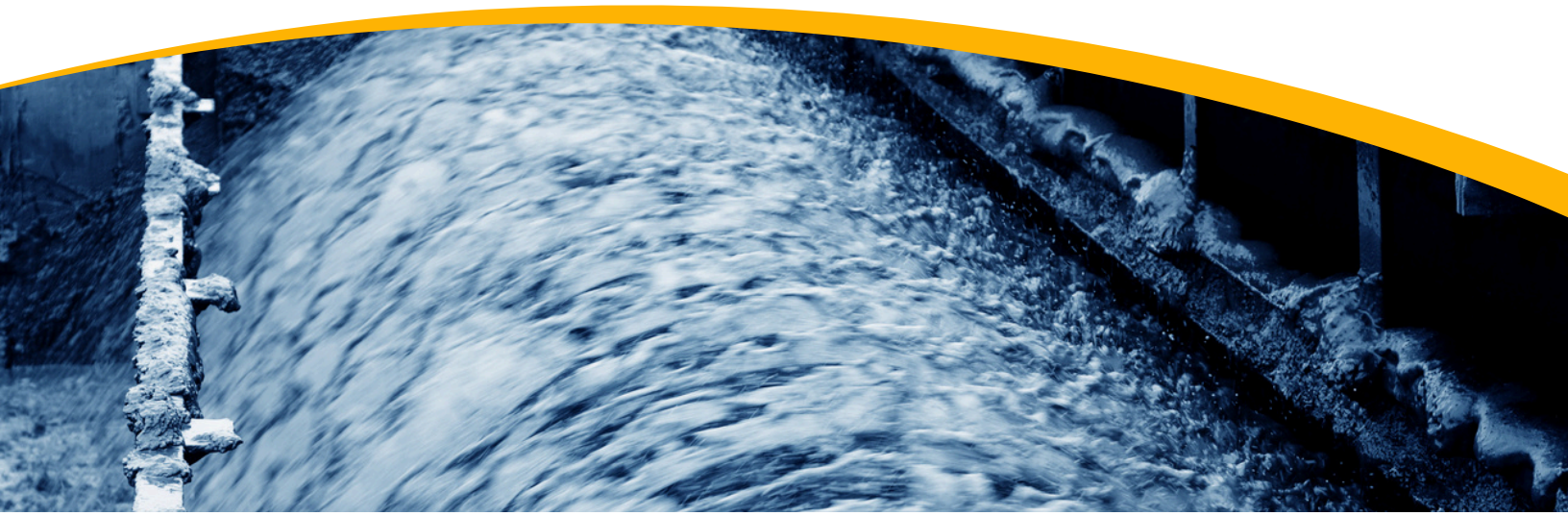
Specialty Industries:

- Materials Handling
- Building Automation
- Aircraft Brake Manufacturing
- Battery Recycling
- Mining and Industrial Water Treatment

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
	Scheider Electric	Modicon M340, M580, Quantum, 984 SCADAPack
	ABB	TotalFlow SpiritIT
	Siemens	S5 S7 ET200
OIT / HMI / SCADA	Allen-Bradley / Rockwell Automation	FactoryTalk View SE
	Scheider Electric	AVEVA Wonderware InTouch Wonderware System Platform Magellis PanelMate Proface
	Scheider Electric	Modicon M340, M580, Quantum, 984SCADAPack
	ABB	
	Siemens	WinCC
	Inductive Automation	Ignition Vision Ignition Perspective
	Red Lion	Crimson FlexEdge Graphite
	Beijer	iX Developer X2 WebIQ
	Other	Cygnet
DCS	Emerson	DeltaV
	Siemens	PCS 7
	Rockwell Automation	PlantPAx
NETWORK AND DATA CONSOLIDATORS	Beijer Pheonix Contact Red Lion Hirschmann TosiBox Cisco	Protocol Conversion Wireless connectivity Cellular OPC UA, MQTT Modbus, BacNet, Profinet, HART, Fieldbus, DeviceNet
VIRTUALIZATION	VMware ESXI Hyper-V	
CONTROL AND ELECTRICAL PANELS	ISO	9001:2015
	UL	67, 508A, 698A, 891, 1008
	Capabilities	Control, PCBA, Low Voltage Electrical, Switchgear, Panelboards, Sheet Metal Fabrication

Experience:

Water & Wastewater



Aquifer Storage and Recovery System

2.2M SCADA system using multiple GE RX3I PLC's.\
The city will use a Wonderware Archestra SCADA system to control a surface water treatment plant and distribute water through a pipeline to a network of wells, to either recharge the aquifer or recover the stored water for the city.

Wastewater Treatment Plant SCADA Upgrade

Wonderware development using NAD two SCADA six control stations, and 4 view nodes and a Allen Bradley PLC5 configuration controlling the entire upgraded side of the plant.

All data feeds into a SQL server where reports can be generated per operator and management requests.

Water Reclamation Project

- 250 points RSVIEW SE distributed SLC500 PLC reverse osmosis filter control chemical monitoring, and closed loop control for sodium hypochlorite and all chemicals to control PH.
- Connected the existing plant to the new system.

Wastewater SCADA Migration

- Architect migration plan for conversion from ICONICs SCADA system hosted on Allen-Bradley PLCs to a PlantPAx system. Multi-phase project:
- New virtualized stratus-redundant services to host FactoryTalk system
- Converted ICONICs based screens to FactoryTalk View in PlantPAx style, without PlantPAx logic to facility conversion of SCADA before deployment of upgraded controllers
- After SCADA migration, upgraded SLC and CompactLogix controllers to modern versions with additional memory for PlantPAx objects, then redeployed to the SCADA system.

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

Staff Augmentation (Multiple)

- Staff augmentation for project and operational support of EI&C support
- 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.

Chemical Precipitation Water Treatment:

- Treated 250 gpm of mine water with elevated levels of iron, arsenic, manganese, and magnesium
- Construction management, integration support engineering, and quality assurance review
- Plant commissioning plan development and control philosophy for automation contractor
- Factory and Site acceptance testing of control system for field engineer facility and operations training
- Contract extended for facility operation, upgrades, and development of a remote telemetry system