



ASAA^{LLC}

AUTOMATION SYSTEMS & ADVANCED APPLICATIONS

Todd Schroeder

Owner & Principal Engineer

Todd.Schroeder@asaa-engineering.com

Wasilla, Alaska

Capabilities

CONTROLS ENGINEERING & ENGINEERING PROJECT MANAGEMENT · ALASKA

WHAT WE DO

Control System Design & Programming

PLC, DCS, HMI and SCADA design, programming, migration and support across Rockwell Automation, Honeywell and Emerson/GE platforms. Legacy system support, upgrades and platform migrations with minimal operational disruption.

Industrial Networking & OT/IT Integration

Process control network architecture, Allen-Bradley Device Level Ring (DLR) design, VLAN segmentation between OT and corporate networks, and secure integration with enterprise systems.

Advanced Applications & Reporting

Custom AVEVA operations reports, SQL and Excel reporting, and Python tools for process optimization and historian data analysis. Enterprise historian deployment and integration.

Engineering Project Management

Scope definition, estimating and budgeting, scheduling, contract and change-order management, subcontractor and vendor management, field installation oversight, and formal reporting to owners and executive stakeholders. Engage ASAA for engineering, project management, or both.

Commissioning & O&M Support

Startup, commissioning and long-term operations and maintenance engineering support, including remote and on-site troubleshooting for North Slope and remote-site facilities.

PLATFORMS

PLC / PAC	ControlLogix, PLC-5, SLC 500, MicroLogix, PACSystems RX3i
Software	Studio 5000, RSLogix 5/500/5000, PAC Machine Edition, Python, SQL
DCS	Honeywell Experion PKS, legacy Honeywell DCS
HMI / SCADA	FactoryTalk View SE/ME, Ignition, AVEVA/Wonderware InTouch, iFIX
Historians	AVEVA PI, Canary, FactoryTalk Historian SE, Proficy iHistorian
Networking	Allen-Bradley DLR, VLAN design, OT/IT integration

INDUSTRIES

Oil & Gas

Water / Wastewater

Power Generation

Utilities

Military Installations

PRINCIPAL

Todd Schroeder founded ASAA, LLC in 2016 after 16 years at Honeywell as Lead Principal Project Engineer for Alaska process control operations, where he led the Alaska engineering team and was lead engineer on a multi-million-dollar field-wide SCADA and controls upgrade for a major North Slope operator. He has 30+ years of hands-on controls experience in oil & gas, water/wastewater and power, most of it in Alaska.

HOW WE WORK

Direct to owners and operators, or as a subcontractor to integrators and engineering firms. From a one-day troubleshooting call to a full plant upgrade.

REPRESENTATIVE WORK

- Project manager and lead engineer, combined heat and power plant control system upgrades at a military installation in Interior Alaska
- Ongoing O&M engineering support for North Slope oil & gas automation and legacy control systems (2015 – present)
- Municipal water treatment plant and pump-house expansion, including historian and HMI upgrades
- Lift-station controls upgrade for a municipal water and wastewater utility
- Enterprise-scale historian deployment for an electric utility
- Process control network, PLC and SCADA support for a borough water/wastewater plant (2024 – present)