

DARIN MOLONE

OT & SCADA Leadership | Industrial Data | Applied AI

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PROFESSIONAL SUMMARY

Operational Technology leader with 30+ years running SCADA, control-system, and OT data programs for midstream energy, and a hands-on practitioner building applied AI systems for industrial data problems. Have led multi-team organizations through SCADA replacements, telemetry buildouts, and enterprise data governance while holding availability and compliance through every change. Pair that process discipline with working fluency in AI — I build and evaluate computer vision and local language-model systems personally, and serve on an AI curriculum advisory board.

CORE COMPETENCIES

OT / SCADA Strategy & Operations · Multi-Team Leadership & Org Development · OT Data Governance & Architecture · Applied AI & Machine Learning for Industrial Data · Pipeline Control Room Support · Telemetry & Telecom (RF, Satellite, LTE, Licensed, Spread-Spectrum) · Compliance (DOT, FERC, SOX) · OT Cybersecurity · Vendor & Capital Project Management

OT & Control Systems: CygNet, Telvent, Wonderware, MQTT edge connectors, unified namespace architecture

AI & Machine Learning: TensorFlow, locally hosted LLMs and vision-language models, agentic / tool-use harnesses, computer vision (OpenCV, Hu moment invariants), graph modeling

Infrastructure: VMware, Terraform, Azure, Active Directory, Python

APPLIED AI PROJECTS — INDEPENDENT WORK

P&ID-to-DAG Conversion for Process Topology Extraction

Working prototype

- Built an application that converts piping & instrumentation diagrams into machine-readable directed acyclic graphs, capturing equipment, instrumentation, and flow connectivity as queryable structure rather than static images.
- Combined classical computer vision — Hu moment invariants for rotation- and scale-tolerant symbol matching — with machine learning classification to identify symbols and trace connectivity across the drawing.
- Added a quality-assurance layer using locally hosted vision-language models to verify extracted elements against the source drawing, flagging low-confidence regions for human review rather than passing errors downstream.

Local-First Coding Agent Harness with Escalation Routing

Working prototype

- Designed and built an agentic coding harness that runs local open-weight coding models as the default execution path, escalating to frontier models only when local attempts fail defined validation gates.
- Implemented failure detection and routing logic so escalation is triggered by measurable failure rather than assumption — containing inference cost and keeping the majority of work on locally hosted models.
- Applies an operating principle carried over from OT practice: process close to the source, keep data local by default, and escalate on defined exception criteria.

PROFESSIONAL EXPERIENCE

Williams — Tulsa, OK

Dec 2009 – Present

Sr. Manager, OT Data Solutions (Apr 2022 – Present)

- Own the standards, governance, and delivery processes that turn pipeline and facility data into a trusted enterprise asset for analytics, reporting, and operations.
- Pioneered the digital-transformation initiative that deployed MQTT-based edge connectors and a unified namespace, streaming high-fidelity OT data from field devices to enterprise analytics platforms in real time.
- Established governance frameworks that improved data quality and accessibility while maintaining compliance and OT security boundaries.
- Operate at the seam between control-room operations and enterprise data teams, translating process constraints into architecture decisions both sides can live with.

Sr. Manager, SCADA (Dec 2009 – Apr 2022)

- Led four SCADA teams supporting pipeline control groups across Gathering & Processing, Transmission, Storage, and Liquids assets.
- Directed multiple SCADA upgrade and full-replacement programs, sequencing cutovers to protect control-room availability throughout transition.

- Owned system maintenance, availability, and lifecycle standards for control systems supporting 24/7 pipeline operations.
- Coordinated DOT and FERC regulatory compliance activities, including documentation and audit readiness.

Atlas Pipeline Mid-Continent — Oklahoma City, OK

Nov 2005 – Dec 2009

Director, SCADA & Telecommunications

- Directed design, implementation, and support of SCADA solutions and telecommunications infrastructure across midstream assets.
- Managed vendors, technicians, and consultants delivering SCADA and telecom projects.
- Developed and maintained procedures meeting SOX, DOT, and FERC compliance requirements.

TEPPCO — Houston, TX

Feb 2002 – Nov 2005

Lead SCADA Analyst

- Installed, configured, and maintained Telvent and Wonderware SCADA systems.
- Developed applications for leak detection, pressure monitoring, batch tracking, and ticketing.
- Maintained DNS and Active Directory servers supporting the SCADA environment.

OGE Energy Corp — Oklahoma City, OK

Dec 1996 – Feb 2002

SCADA Specialist

- Designed, installed, and maintained communication circuits and SCADA configurations.
- Supported specification, installation, and commissioning of gas measurement and SCADA equipment.

EARLIER EXPERIENCE

- Electronic Technician, Mason & Hanger Inc. — Amarillo, TX (1992 – 1996). Installed and maintained electronic security systems protecting nuclear assets; served on the OSHA compliance team.
- Telecommunications Analyst, Phillips Petroleum Co. — Bartlesville, OK (1990 – 1992). Installed and maintained conventional and trunking radio systems supporting field operations.
- Sergeant, Avionics & Autopilot Technician, U.S. Air Force (1986 – 1990). Maintained inertial navigation and autopilot systems on AWACS Boeing 707 airframes.

BOARD & INDUSTRY LEADERSHIP

- Board Member, ENTELEC Association (Jun 2023 – Present)
- Advisory Board Member, Atlas School — AI Curriculum (Present)
- Instructor, International School of Hydrocarbon Measurement (ISHM)

EDUCATION

- M.S., Energy Management — Oklahoma City University, 2016
- B.S., Management & Ethics, Magna Cum Laude — Mid-America Christian University, 2002
- A.A.S., Electronics & Programming — Clarendon College, 1986 · NCO Preparatory School — Community College of the Air Force

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- TensorFlow Developer Certificate — Zero To Mastery Academy (Dec 2023)
- Lean Six Sigma Green Belt — University of Oklahoma
- LinkedIn Learning: Generative AI · Introduction to Terraform on Azure · Advanced Terraform · Delivering Employee Feedback