
Shawn Winklepleck

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Professional Summary

High-precision Technical Specialist with an AS in Airframe and Power Plant and over a decade of experience in aerospace manufacturing and municipal infrastructure. Expert in root cause analysis, precision metrology, and fluid system maintenance. Proven track record in developing SOPs and ensuring 100% compliance in highly regulated FAA and OSHA environments.

Technical Skills & Expertise

Aerospace & Manufacturing

- CNC Tube Bending
- Precision riveting
- Hydraulic/pneumatic system assembly
- High-reliability avionics wiring and soldering

Quality & Metrology

- Investigative RCA
- Nonconformance management
- High-tolerance calibration with micrometers, calipers, and gauges

Operations & Compliance

- SCADA HMI, and Antero 7
- FAA, OSHA, and AS9100 standards and lockout-tagout (LOTO) protocols.

Logistics & Inventory

- 505AC kitting cycles
- Serialized part traceability
- Management of complex and specialized supply chain materials

Work Experience

North Weld County Water District | *Service Technician* October 2023 – April 2025

- Managed comprehensive infrastructure maintenance, repairing main lines, fire hydrants, and valves while utilizing acoustic leak detection to minimize water loss and ensure system efficiency.
- Ensured 100% operational uptime through routine inspections of pump stations and storage tanks, monitoring system health via SCADA and documenting all repairs in CMMS software.
- Resolved complex customer service issues, including pressure and quality concerns, while managing meter installations and precision testing to ensure billing accuracy.
- Facilitated emergency response and site safety by performing 811 utility locates and managing after-hours repairs, including site flagging and proactive community notification regarding service interruptions.

Paravion Technology / Dart Aerospace | *Manufacturing Specialist* November 2022 – June 2023

- Fabricated aerospace fluid lines via high-tolerance CNC Tube Bending and assembled stainless steel panels using precision air/electric tooling.
- Executed high-reliability avionics wiring, crimping, and soldering; calibrated hydraulic pumps and valves to flight-ready specifications.
- Optimized 505AC kitting cycles with 100% traceability, managing heat sealing, labeling, and specialized freight documentation.
- Applied specialized surface treatments, including epoxy mixing and powder coating, for mission-critical aeronautic components.

Work Experience (cont.)

Soldier Canyon Water Treatment Authority | Sr. Maintenance Specialist November 2020 – November 2022

- Managed unit processes for flow control and chemical feed systems; performed diagnostic repairs on industrial pneumatic and hydraulic pumps.
- Engineered a complete redesign of the critical parts inventory system, improving procurement efficiency for electrical and poly components.
- Executed laboratory sample analysis and technical reporting in a high-compliance treatment environment.

Town of Nunn, CO | Public Works Supervisor September 2019 – October 2020

- Spearheaded a town-wide technical upgrade of water metering systems, including sensor calibration and complex piping installations.
- Authored and refined Standard Operating Procedures (SOPs) and safety protocols for critical infrastructure and emergency response.
- Managed procurement budgets, contractor oversight, and 24/7 monitoring of high-volume fluid distribution systems.

Woodward Governor | Machinist I (Quality & Diagnostics) October 2016 – August 2019

- Conducted investigative disassembly and Root Cause Analysis (RCA) on aerospace combustion systems to resolve performance variances.
- Performed high-tolerance machining and calibration tests under strict nonconformance procedures and aerospace QA standards.
- Acted as Technical Mentor, interpreting complex blueprints and training personnel on metrology tools (micrometers, calipers, gauges).

Education

Associate of Science: Airframe and Power Plant

Redstone College – Broomfield, CO | **GPA: 4.0**

Licenses & Certifications

FAA Airframe and Power Plant License 2008

Forklift

Warehouse organization

EHS Standards

Hazmat Training

Colorado Safety Association

OSHA General Industry

cGMP, GLP, ISO, QA/QC, EPA, FDA, DHS, TSA, Six Sigma, Kaizen