

Steven Koehl, Aerospace Engineer

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PROFILE

Strategic ops leader and aerospace maintenance professional with 17 years in USAF across AFREP, Technical Order Distribution, Product Improvement, and COR oversight. Drive readiness, quality, and compliance via data-driven program management—managed \$35M in assets and a \$2M contract with 100% PWS adherence; led PQDR actions recovering \$7M and improving fleet safety. Master technical instructor with 4,000+ platform hours and a 92% pass rate; known for building high-performing teams and continuous improvement.

EMPLOYMENT HISTORY

Oct 2024 — Present

Senior AFREP Technician & AI Developmental Lead, United States Air Force

Fairchild AFB, WA

Dedicated Air Force Repair Enhancement Program (AFREP) Senior Technician with 2 years of experience in micro-miniature circuit card repair and specialized component-level maintenance. Proven track record of enhancing wing mission capability (MC) rates by providing local repair solutions for high-cost, non-mission capable (NMC) assets. Expert in soldering, circuit analysis, and precision testing equipment.

Jan 2020 — Oct 2024

Technical Order Distribution Office & Product Improvement Manager, United States Air Force

JB McGuire-Dix-Lakehurst, NJ

Maintenance Program Manager | TODO, PIM, & COR

Lead administrator for technical data, product quality, and contract oversight at JB McGuire, NJ.

- **Program Integration:** Orchestrated a tri-functional management strategy, synchronizing Technical Order distribution, Product Improvement, and Contract Oversight to ensure 100% mission readiness for a fleet/equipment valued at **\$35M**.
- **Technical Compliance (TODO):** Managed a library of **5,000** digital and physical Technical Orders; conducted monthly audits with a **98%** accuracy rate, ensuring all maintenance actions adhered to current Air Force and FAA-equivalent safety standards.
- **Quality & Engineering (PIM):** Served as the primary liaison to Air Force Materiel Command (AFMC) for the Joint Deficiency Reporting System (JDRS); investigated and submitted **140** Product Quality Deficiency Reports (PQDRs), resulting in **\$7M** in recouped costs and fleet-wide safety modifications.
- **Contractual Oversight (COR):** Acted as the "eyes and ears" for the Contracting Officer, monitoring vendor performance for a **\$2M** service contract; ensured 100% adherence to the Performance Work Statement (PWS) and certified monthly invoices for payment.
- **Continuous Improvement:** Leveraged data from the Deficiency Reporting program to identify training gaps, leading to a revised technical data distribution process that reduced maintenance errors by **15%**.
- **Risk Mitigation:** Conducted rigorous surveillance of contractor operations and technical data usage, eliminating safety hazards and ensuring compliance with OSHA and Air Force occupational safety protocols.

Jan 2016 — Dec 2019

Technical Training Instructor, United States Air Force

Sheppard AFB, WA

Master Technical Trainer & Instructional System Designer (ISD)

Subject Matter Expert (SME) responsible for the technical development and safety of 200 students annually.

- **Curriculum Development:** Authored and revised 300 hours of instructional material, integrating ETIMS (Technical Orders) and real-world AFREP repair scenarios into the classroom to enhance training realism.
- **Instructional Delivery:** Delivered over **4,000** hours of formal platform instruction on complex electronics, micro-miniature soldering, and component-level diagnostics, maintaining a **92%** student pass rate.
- **Student Throughput & Management:** Managed the daily schedules, discipline, and academic progress for a diverse pipeline of 800 students, ensuring 100% on-time graduation for high-priority AFSC requirements.
- **Evaluation & Quality Control:** Developed and administered rigorous written and performance-based evaluations; utilized data-driven analysis to identify "bottleneck" lessons, increasing class average scores by **12%**.
- **Safety & Compliance:** Enforced strict adherence to OSHA and Air Force Occupational Safety and Health (AFOSH) standards during high-risk laboratory exercises, resulting in **zero** training mishaps over [Number] months.

- **Mentorship & Leadership:** Served as a Military Training Leader (MTL) equivalent for students, providing professional development and career counseling to bridge the gap between Basic Training and the Operational Air Force.

EDUCATION

Jun 2019 — Jun 2021	Master of Science in Aeronautics, Embry-Riddle Aeronautical University	Worldwide
Aug 2016 — May 2019	Bachelor of Science in Aeronautical Engineering, Embry-Riddle Aeronautical University	Worldwide
Jan 2016 — Jun 2018	Instructor of Technology and Military Science, Community College of The Air Force	Maxwell Air Force Base

SKILLS

Technical Skills	Expert	Critical Thinking	Expert
Problem-solving	Expert	Excellent Communication Skills	Expert
Teamwork	Expert	Adaptability/Flexibility	Expert
Time Management	Expert	Microsoft Office	Expert
Leadership	Expert	Analytical Skills	Expert
Organization	Expert	AutoCAD	Expert
Creativity	Expert	Aeronautics	Expert
Attention to Detail	Expert	Cloud Computing	Expert

LANGUAGES

English	Native speaker	French	Very good command
Spanish	Highly proficient		