

JOSEPH ROBERTSON

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QUALIFICATIONS SUMMARY: Avionics Test Station and Component Craftsman / Electronic Integrated System Mechanic with 20+ years of experience **inspecting, testing**, troubleshooting, repairing, modifying and maintaining **complex integrated electronic aviation systems** for the U.S. Air Force (USAF). Experienced in lifecycle maintenance planning, scheduling and management of sophisticated electronic systems. Advanced analytical, troubleshooting and problem-solving skills.

- Track record of performing the most difficult and complex Electronic Integrated System Mechanic tasks in fast-paced, quality-driven environment. **Excellent safety record.**
- Advanced technical skills in the use of computer-controlled diagnostic automated test equipment (ATE) and wide variety of hand and power tools.
- AAS degree, Avionics Systems Technology.
- Hands-on experience with A-10 Thunderbolt II, B-1B Lancer, B-2 Spirit, C-130 Hercules, C-17 Globemaster III, CV-22 Osprey, and F-16C/D Viper.

TECHNICAL CERTIFICATIONS: Communication and Navigation Systems Craftsman, 7-Level Certification, 2007 | C-130 Self-Contained Navigation Systems Certified, 2007 | AN/APN 59 Radar System Certified, 2007 | Basic Soldering Technique Certified, 2007 | AN/ARC-164 UHF Radio Certified, 2007 | F-16 Improved Avionics Intermediate Station Certified, 2007 | Air Force Smart Operations (AFOC) 21, Green Belt Certification, 2014 | Block II/III Supply Certification, 2018

PROFESSIONAL EXPERIENCE

U.S. AIR FORCE

C-17 Avionics Test Station and Component Craftsman (2A071K)

U.S. Air Force, 305th Maintenance Squadron, Avionics Maintenance Flight

Joint Base McGuire-Dix-Lakehurst (JB MDL), Trenton, NJ 08641

Supervisor: Bob Thompson, 111-222-3456; may be contacted.

09/2008 – present

02/2018 – present

40 hours/week

AIRCRAFT MAINTENANCE – MILITARY REPAIR STATION – **TEAM SUPERVISION:** **Supervise and provide technical instruction** to 6 technicians (Active Duty, Reserve and civilian personnel) in maintenance, alignment, calibration, troubleshooting, modification and repair of **avionics test systems, test stations**, special equipment and aircraft components for 14 C-17 Globemaster III military transport aircraft. Plan, organize and implement all integrated avionics activities, including facility layout. Ensure special equipment and parts availability. Apply Title 14 CFR and related guidance for quality systems for maintenance of aircraft and airworthiness. Set project budget and schedules. **Ensure compliance with policies** for equipment and parts management.

MAINTENANCE AND REPAIR OF AIRCRAFT SYSTEMS WITH RESPONSIBILITY FOR CERTIFYING AIRWORTHINESS: **Knowledge of regulations and interpret results of tests and reports.** Perform operational tests on test equipment, special equipment and aircraft components. Isolate malfunctions in radar, sensors, communications, weapons control, electronic warfare, flight control and engine control systems. Analyze fault data; determine best solution to repair line replaceable units (LRUs). Use risk analysis techniques to assess product and part safety.

AUTOMATED TEST EQUIPMENT (ATE): **Use self-test and software functions**, computer and manually operated avionics, test equipment, special equipment and test measurement and diagnostic equipment to determine scope of repair. Remove and replace assembly components.

TECHNICAL DOCUMENTS AND REPORTS: Prepare reports and build working relationships to resolve complex issues. Initiate deficiency reports, maintenance analysis documents, technical data changes and equipment records. Use the Reliability, Availability, Maintainability for Pods (RAMPOD) system to **record data**. Ensure **performance management**. Prepare range of technical reports. **Stakeholder engagement** for report follow-up and results analysis.

KEY ACCOMPLISHMENTS

- Successfully aligned, calibrated, troubleshoot and repaired a \$9M C-17 automated test station.
- **Project Management**: Led 4-person repair team to restore M967 maintenance test set capabilities, eliminating 20-item critical asset backlog and 3-day maintenance production standstill. Cost savings: \$500K.
- **Provided operational decision-making as the lead for** regional Avionics flight daily maintenance operations utilizing **systems thinking** with complex and critical operations. Repaired 60 units, saving \$5M. Concurrently provide critical maintenance support for multinational C-17 mobility exercise.
- **Team leader** and provided effective **training of 4 personnel**, turned in 367 Due-In-From Maintenance assets, enabling USAF to reclaim \$38M in depot-level costs.
- Led avionics maintenance support and **risk and safety analysis** for the delivery of 38 Hurricane Harvey relief missions, which ensured on-time delivery of 500 tons of airlifted cargo.

F-16 Avionics Test Station and Component Craftsman (2A071K)

02/2017 – 02/2018

U.S. Air Force, 8th Maintenance Squadron, Avionics Maintenance Flight

40 hours/week

Kunsan Air Base, Republic of South Korea

Supervisor: Mike Abramson (South Korea), 234-111-1111; may be contacted.

MAINTENANCE OVERSIGHT: Oversaw all activities for maintenance, **inspection, testing** and troubleshooting of F-16C/D aircraft and associated equipment, from parts receipt to final inspection for intermediate-level repair of 1,100 specific aircraft avionics system LRUs for 44 assigned F-16C/D aircraft, \$1.2B value. Used handbooks, specifications and technical orders.

CREW SUPERVISION AND **TRAINING**: technical and administrative direction to 10 maintenance technicians. Managed schedules, workloads and training requirements. Established goals and evaluated performance. **Ensured health, safety and security procedures** were enforced. Performed quality control inspections for **Air Force standards and safety** and security protocols.

SUBJECT MATTER EXPERTISE: Managed all operations of two Improved Avionics Intermediate Test Stations (AIS) and associated support equipment worth \$18M. Supervised all parts requisition and test station maintenance decisions. Tracked deficiency and catalogued data on grounded aircraft. Oversaw quality and accuracy data and regulatory and environmental compliance for 21 programs.

KEY ACCOMPLISHMENTS

- Directed accurate and efficient maintenance on 217 LRUs, filling 19 critical repair demands and saving \$1.7M in supply costs. Achieved the best record in 7th Air Force.
- Oversaw maintenance of 426 LRUs in 2016. **Analyzed data to review metrics**: repaired 55%, a 43% increase from 2015, for a cost savings of \$4.2M in depot exchange costs.

F-16 Avionics Test Station and Component Craftsman (2A071K)

09/2014 – 02/2017

U.S. Air Force, Holloman Air Force Base, 54th Maintenance Squadron

40 hours/week

Avionics Maintenance Flight, Alamogordo, NM 88310