

Cash Ferguson

Experienced Repair Station Mechanic

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STRENGTHS



Composite Repair

Carbon fiber and metal bond work supported reliable component restoration. Engineering partners valued clear layouts when damage exceeded routine definition.



Precision Fabrication

Raw stock became accurate detail parts through measured layouts, drilling, reaming, riveting, sealing, and careful dimensional checks.



Systems Installation

Tubing, ducts, valves, regulators, and wire bundles were routed with close attention to fit, clearance, fastening, and configuration.



Functional Testing

After rework, assemblies were restored and tested. Inspection teams received clear results, discrepancies, and corrective action records.



Safe Shop Practice

PPE, tool accountability, hazardous material controls, and clean work areas kept repair activity orderly during demanding production assignments.

SKILLS

Composite Repair

Carbon Fiber Composites

Metal Bond Repair

Structural Repair

Mechanical Repair FAR 145

Engineering Drawings

Wiring Diagrams Schematics

Fabrication

Precision Measurement

SUMMARY

Experienced aircraft repair mechanic with eight years supporting FAA regulated maintenance environments across structural, mechanical, composite, electrical, and component work. Performs carbon fiber composite and metal bond repairs, fabrication from raw stock, drilling, reaming, riveting, sealing, painting, wiring, tubing installation, precision measurement, and **functional testing**. Applies **Component Maintenance Manuals**, **Structural Repair Manuals**, Service Bulletins, **engineering drawings**, wiring diagrams, vendor manuals, process specifications, and repair instructions during complex rework. Partners with engineering on limited repair definition, developing practical layouts and work sequences that preserve approved boundaries and airworthiness. Holds an active FAA Airframe and Powerplant certificate, with strong practice in FAR 145 compliance, hazardous material controls, PPE, tool accountability, documentation, and inspection readiness. Ready to contribute safe, accurate repair execution within an on site repair station team.

EXPERIENCE

Senior Repair Station Mechanic

Rainier Aviation Components 📅 January 2023 - Present 📍 Tacoma, WA

Leads structural, composite, mechanical, and electrical component **rework** in an FAA Part 145 environment. Supports engineering defined repairs, **fabrication**, installation, inspection preparation, documentation, and functional testing across first shift production work.

- Completed carbon fiber repairs using CMMs, SRMs, repair drawings, and controlled **process specifications**.
- Developed repair layouts with engineering for limited definition work, preserving approved boundaries and configuration requirements.
- Fabricated raw stock details through drilling, reaming, riveting, sealing, painting, and precision measurement.
- Installed wire bundles, tubing, valves, regulators, ducts, and hardware against drawings and routing requirements.
- Carried component work from disassembly through restoration, documentation, inspection, and **functional testing**.
- Controlled **PPE, hazardous materials**, tooling, and records, supporting safe production and inspection readiness.

Aircraft Structures Mechanic

Puget Sound Aero Structures 📅 May 2020 - December 2022 📍 Everett, WA

Performed metallic and composite structural repairs across scheduled and emergent aircraft work. Managed access, detail fabrication, precision inspection, tooling coordination, hardware restoration, and safe material handling within controlled shop operations.

- Repaired metallic and composite structures using drawings, **Service Bulletins**, manuals, and shop specifications.
- Prepared damaged areas and installed replacement details through drilling, countersinking, reaming, riveting, bonding, and sealing.
- Verified hole size, thickness, fastener fit, and dimensions with calipers, micrometers, and depth gauges.
- Restored surrounding hardware after repair access, then completed operational checks for accepted structural work.
- Coordinated raw stock, fasteners, adhesives, and specialized tooling before complex repair assignments.
- Handled solvents, sealants, fluids, composite dust, and waste with required PPE and approved procedures.

Repair Mechanic

Hazardous Materials

CERTIFICATIONS

- FAA Airframe and Powerplant Certificate 📅 2021
- Hazardous Materials Handling Training 📅 2025

TECHNICAL SKILLS

- **Repair Manuals:** Component Maintenance Manuals, Structural Repair Manuals, Service Bulletins
- **Technical Drawings:** Engineering Drawings, Assembly Drawings, Repair Drawings
- **Composite Materials:** Carbon Fiber, Metal Bond, Phenolics
- **Fabrication Processes:** Drilling, Reaming, Riveting
- **Finishing Processes:** Sealing, Painting, Bonding
- **Aircraft Plumbing:** Tubing, Valves, Regulators
- **Aircraft Systems:** Air Systems, Water Systems, Fuel Systems
- **Electrical Work:** Wire Bundles, Wiring Diagrams, Electrical Assemblies
- **Measurement Tools:** Calipers, Micrometers, Depth Gauges
- **Compliance Standards:** FAR 145, FAA PC 700, DOT Requirements
- **Safety Controls:** PPE, Hazardous Materials, Waste Disposal
- **Maintenance Testing:** Functional Testing, Operational Checks, Inspection Records

PROFESSIONAL AFFILIATIONS

- Active FAA Airframe and Powerplant certificate holder
- Aircraft repair and maintenance professional network participant
- Workplace safety and hazardous material handling advocate

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST