

Cash Ferguson

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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

January 2023 - Present

Rainier Aviation Components

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

May 2020 - December 2022

Puget Sound Aero Structures

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

August 2018 - April 2020

Olympic Aircraft Services

Renton, WA

Supported mechanical, structural, electrical, and plumbing component work using schematics, assembly drawings, standard procedures, and vendor instructions. Completed installation, **modification**, testing, and documentation across assigned repair scopes.

- Completed mechanical and structural repairs using schematics, assembly drawings, procedures, and vendor instructions.
- Installed tubing, standoffs, valves, regulators, and ducts, confirming alignment, fastening, and system readiness.
- Rerouted wires and electrical assemblies during component modifications, preserving identification and routing requirements.
- Supported air, water, fuel, detection, and fire protection module installation within assigned component scopes.
- Performed functional tests and documented discrepancies, corrective actions, and final results for inspection review.
- Built **composite repair** capability through supervised carbon fiber preparation, bonding, and dimensional checks.

Junior Aircraft Mechanic

October 2017 - July 2018

Columbia Airframe Works

Vancouver, WA

Supported experienced mechanics with aircraft structural and mechanical repairs while building practical skill in drawings, fabrication, hardware installation, measurement, tool control, PPE, and material handling.

- Supported structural and mechanical repairs under experienced mechanics using drawings, specifications, and repair procedures.
- Disassembled component hardware for access and organized parts for controlled reinstallation after approved work.
- Prepared raw stock and simple detail parts through measured layouts, cutting, drilling, and deburring.
- Performed drilling, riveting, sealing, and hardware installation under documented process and tool control requirements.
- Verified completed dimensions with calipers and micrometers before presenting work for inspection.
- Maintained clean work areas while handling metals, solvents, oils, coolant, PPE, and regulated waste.

PROJECTS

Carbon Fiber Component Repair 📅 2024

Completed a focused repair effort involving carbon fiber patch preparation, bonding, dimensional checks, and functional verification. Work strengthened repeatable composite repair practice within controlled aircraft maintenance procedures.

Integrated Aircraft System Module Rework 📅 2022

Supported component modification involving tubing, wire routing, valves, ducts, and preassembled air, water, fuel, detection, and fire protection modules. Final checks confirmed installation accuracy and system readiness.

LEADERSHIP & AWARDS

- FAA Repair Station Safety Recognition, Rainier Aviation Components, 2025
- Composite Repair Contribution Award, Puget Sound Aero Structures, 2022
- Peer Recognition for Tool Control and Shop Readiness, Olympic Aircraft Services, 2019

EDUCATION

High School Diploma

Fort Vancouver High School GPA: 4.0

2017

Vancouver, WA

Coursework: Aircraft maintenance fundamentals, mechanical systems, technical drawings, workplace safety

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

SKILLS

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|---------------------------|------------------------|-------------------------|-----------------------|
| • Composite Repair | • Mechanical Repair | • Schematics | • Wire Routing |
| • Carbon Fiber Composites | • FAR 145 | • Fabrication | • Tubing Installation |
| • Metal Bond Repair | • Engineering Drawings | • Precision Measurement | • Hazardous Materials |
| • Structural Repair | • Wiring Diagrams | • Functional Testing | |

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST