

# KRISTINA BARRETT

MECHANICAL DESIGN • CAD • FABRICATION • AVIATION MAINTENANCE

Tacoma, WA | (714) 697-9585 | kristinabarrett@kristinabarrett.com | kristinabarrett.com

---

## PROFESSIONAL SUMMARY

Certified SolidWorks Associate and mechanical designer with experience spanning rapid prototyping, manufacturing documentation, structural and assembly drafting, hands-on fabrication, aviation maintenance, and technical operations. Combines CAD precision with practical CNC, laser-cutting, welding, parts, logistics, and cross-functional coordination experience.

## SELECTED TECHNICAL EXPERIENCE

### CAD & Mechanical Design

- Applied SolidWorks and AutoCAD across rapid prototyping, structural design, assembly drawings, and manufacturing documentation.
- Delivered SolidWorks design work for a specialty rapid-prototyping firm and produced structural and assembly drawings for deployable disaster-relief shelters.
- Designed an original guitar adapted for wheelchair users, earning first place at the OC Maker Fair.

### Fabrication & Physical Prototyping

- Performed CNC milling, laser cutting, MIG welding, sheet-metal forming, and work with tubing and corrugated stock for prototypes and custom tooling.
- Connected design intent to physical constraints including setup, access, joining, inspection, fit, and manufacturability.

### Aviation Maintenance & Technical Operations

- Holds FAA Airframe & Powerplant certification with experience in maintenance support, technical parts sourcing, logistics, incoming quality checks, and documentation-driven work.
- Cross-referenced Illustrated Parts Catalogs and Aircraft Maintenance Manuals, coordinated delivery, and aligned maintenance, inspection, accounting, customer relations, operations, and facilities stakeholders.
- Built requirement-gathering and de-escalation strength through five years in customer-facing retail and food-service environments.

## TECHNICAL SKILLS

SolidWorks (Certified Associate) • AutoCAD • Mechanical Design • Structural & Assembly Drafting • Rapid Prototyping • CNC Milling • Laser Cutting • MIG Welding • Sheet-Metal Fabrication • Parts Sourcing • Inventory & Logistics • Technical Documentation • Cross-Functional Coordination • Process Improvement

## EDUCATION & CERTIFICATIONS

FAA Airframe & Powerplant Certification • Certified SolidWorks Associate • Bachelor's Degree in Computer Science • Two Management Certifications