

Leila Miles

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SUMMARY

Early career **composite fabrication** specialist with supervised laboratory and academic experience building composite assemblies, preparing tooling, interpreting blueprints, and following documented **manufacturing instructions**. Hands on work includes lay up, wet lay up, prepreg handling, bonding preparation, adhesive use, release agent application, sealing concepts, riveting awareness, assembly practices, and quality checks for composite and **metallic components**. Technical coursework and shop projects developed practical judgment around ply locations, **tooling requirements**, material placement, FOD prevention, safety procedures, and nonconforming part identification. Fabrication results, process conditions, and inspection observations were recorded clearly for engineering reviews. Collaborative lab work strengthened communication, troubleshooting, and process improvement skills. Prepared to contribute safely and reliably across first or second shift manufacturing operations while pursuing required security clearance eligibility.

EDUCATION

Associate Degree in Manufacturing Technology 2026
Southwest Technical College GPA: 3.8 Mesa, Arizona
Coursework: Composite fabrication, manufacturing documentation, blueprint interpretation, quality inspection, production safety

TECHNICAL SKILLS

- **Composite Fabrication:** Lay up, wet lay up, prepreg materials
- **Bonding and Adhesives:** Bonding preparation, adhesives, sealing
- **Assembly Processes:** Composite assembly, metallic assembly, riveting
- **Drawing Interpretation:** Blueprints, technical drawings, sketches
- **Manufacturing Documentation:** Written procedures, work instructions, process records
- **Tooling Preparation:** Tooling setups, ply locations, release agents
- **Quality Practices:** Quality checks, inspection observations, nonconforming parts
- **Safety and FOD Control:** FOD prevention, laboratory safety, organized work areas
- **Fabrication Methods:** Wet lay up, prepreg handling, material placement
- **Production Improvement:** Troubleshooting, defect reduction, process consistency

SKILLS

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|----------------------------|-------------------------------|---------------------------|---------------------|
| • Composite fabrication | • Adhesives | • Technical communication | • Release agents |
| • Lay up processes | • FOD prevention | • Technical drawings | • Wet lay up |
| • Blueprint interpretation | • Manufacturing documentation | • Written procedures | • Prepreg materials |
| • Bonding methods | • Quality inspection | • Tooling preparation | |

EXPERIENCE

Composite Fabrication Student Assistant January 2026 - Present
Student Fabrication Lab Mesa, Arizona

Supports supervised laboratory fabrication involving composite materials, tooling preparation, documented workflows, quality checks, and engineering review. Contributes at an early career level by translating drawings into practical setup steps and recording findings that support safer, more consistent production.

- Built composite sample assemblies using prepreg materials and documented **lay up** workflows during supervised laboratory projects.
- Interpreted **technical drawings** to prepare tooling setups and material placement plans for composite sample fabrication.
- Applied **bonding** preparation and adhesive handling practices during laboratory **assembly** exercises with documented quality checks.
- Recorded fabrication results and identified process issues during composite testing assignments for engineering review.
- Followed **FOD prevention** and safety procedures while maintaining organized laboratory work areas during production exercises.
- Presented fabrication findings and process observations during engineering lab reviews, supporting practical process improvements.

Composite Manufacturing Project Member September 2025 - December 2025
University Composite Project Tempe, Arizona

Contributed to a supervised academic manufacturing project focused on prototype composite structures, tooling readiness, wet lay up, inspection records, and team based process improvement. Supported assembly decisions through drawing review, material tracking, and clear technical presentations.

- Created prototype composite structures using wet **lay up** methods and classroom manufacturing standards during team fabrication.
- Prepared release agent applications and evaluated tooling readiness before scheduled **composite fabrication** activities began.
- Reviewed blueprint details and verified component locations during supervised assembly exercises for prototype structures.
- Recorded material usage, process conditions, and inspection observations in project **manufacturing documentation**.
- Supported team discussions that improved fabrication consistency and reduced observed defects during prototype work.
- Presented technical findings and process observations during final project reviews for faculty and student peers.

PROJECTS

Prototype Composite Structure Fabrication 📅 2025

Supported a supervised prototype build from tooling preparation through wet lay up, assembly review, documentation, and final presentation. Project work connected drawing interpretation with practical quality decisions and gave team members space to discuss process issues openly.

LEADERSHIP & AWARDS

- Technical Excellence Recognition, 2026
- Manufacturing Program Achievement Award, 2026

CERTIFICATIONS

- Composite Materials Fundamentals Certificate 📅 2026
- Manufacturing Safety Foundations 📅 2026

PROFESSIONAL AFFILIATIONS

- Manufacturing Student Association Member, 2026
- Composite Materials Study Group Participant, 2026

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST