

Olivia Matthews | MANUFACTURING ENGINEER

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EDUCATION

California Polytechnic State University - San Luis Obispo, CA - *Bachelor of Science*

Manufacturing Engineering - 3.86 GPA, Expected May 2027

- Used Solidworks to design an ergonomic screwdriver handle and injection mold. The mold was machined on a 3-axis Haas CNC and attached to an injection molding machine to produce multiple parts.

PROFESSIONAL SKILLS

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|------------------|---------------|-----------------------------------|
| • CATIA | • GD&T | • Matlab |
| • Fixture Design | • CNC Milling | • SOLIDWORKS CAD Design Associate |

EXPERIENCE

Electronics Manufacturing Engineering Intern, Joby Aviation - *San Carlos, CA*

June 2026 - August 2026

- Collaborated with design engineers in support of a full electromechanical systems design upgrade, translating requirements and company specifications into repeatable, production-level instructions.
- Applied GD&T principles to design inspection fixtures to measure total runout of rotating assemblies to improve balancing capabilities.
- Developed end-of-line test methods and standard operating procedures to meet highly regulated FAA conformance requirements.
- Facilitated NPI builds via lineside technician training, issue dispositioning, and cross-functional blocker resolution.

Manufacturing Engineering Intern, Zone 5 Technologies - *San Luis Obispo, CA*

July 2025 - August 2025

- Led Lean Manufacturing and 5S Visual Management Systems for continuous production by designing shadow boxes, standardizing workstation equipment, and implementing a maintenance schedule for all technicians.
- Authored comprehensive build instructions for electronic harnesses using insights from cycle time studies.
- Eliminated duplicate part production and minimized idle time by implementing a new production task management system that assigned open work orders to technicians.
- Identified areas of waste and conducted detailed cycle time analyses to increase production efficiency.

Manufacturing Engineering Intern, Zone 5 Technologies - *San Luis Obispo, CA*

July 2024 - September 2024

- Scaled production capability from single units to multi-unit volume by standardizing over 200 pages of unmanned aircraft system documentation and introducing new build templates and protocols.
- Established a comprehensive digital system for traceability across all Counter-UAS lines by integrating 1Factory software into build framework.
- Increased technician efficiency by developing a system for separating requirements from engineering documents into build instructions.

Intern, W Machine Works - *San Fernando, CA*

July 2023 - September 2023

- Facilitated the production of military aircraft components for prominent aerospace companies by designing custom tooling and developing assembly methods.
- Conducted acceptance testing and troubleshooting to meet applied force, speed, and breakout time requirements.
- Produced 3D designs using CATIA and SolidWorks that underwent thorough cross-referencing and integration into assembly models.

Manufacturing Engineering Intern, AB CNC - *Rocklin, CA*

August 2021 - December 2021

- Applied GD&T principles to ensure the precision and reliability of machined components.
- Worked cross-functionally with inspection and machining departments to guarantee parts met quality standards.
- Ran and programmed HAAS CNC Mills and lathe machines.