

Joshua Addington

San Francisco Bay Area

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SKILLS

- **Technology:** SolidWorks (5 years), Python (data analysis/scripting), CAM Toolpathing, Microsoft Suite
- **Skills:** CNC machining, Fixture Design and Automation, Data Analysis, Mechanical Testing, Metrology, GD&T

WORK EXPERIENCE

Beacon Medical Products

July 2024 – Sept 2025 | 1 year

Engineer 1

Bluffdale, UT

- Responsible for the full engineering cycle of medical catheter manufacturing equipment, both individually and within small teams.
- **Key Results:** Designed, built, and validated a catheter-balloon cutting laser. The machine reduced QC fail rates by 83% and increased throughput from 300 to 700 units per technician daily.
- Designed, machined, and performed an initial run of 300 units on a mold for an injection molded part.
- **Skills Used:** CAD, Mechanical Design, CNC machining, Prototyping and Testing, Mold Design

Wencor Group

Dec 2022 – June 2023 | 6 months

Engineering Metrology Intern

Springville, UT

- Aided engineering teams in the reverse-engineering of aircraft components by performing metrology tasks, paying close attention to tolerance stackup and manufacturability. Reported findings to engineers to inform design
- **Key Results:** Characterized a series of mesh aircraft gaskets, working through issues with grease buildup.
- **Skills used:** GD&T, Tolerance Analysis, Engineering Drawings, Optical Comparator, Precision Measurement

Teledyne FLIR

Aug 2020 – Aug 2022 | 2 years

Mechanical Engineer Intern

Orem, UT

- Worked on a cross-functional team to design opto-mechanical systems for military drones, collaborating with electrical and software engineers. Provided prototyping and manufacturing support for senior engineers.
- **Key Results:** Developed, built, and tested a new lens alignment procedure that saved 3 technician hours per unit in assembly. Participated in the creation of prototype carbon fiber drone arms (bladder molding).
- **Skills Used:** CAD with large assemblies, Design for High-Volume Manufacturability, Large Team Collaboration, Rapid Prototyping

EDUCATION

Brigham Young University

Sept 2020 – Aug 2025

Bachelors of Science, Mechanical Engineering

Provo, UT

- Emphasis in manufacturing, mechanical testing, measurements, and systems engineering
- **Skills Learned:** CAD, Mechanical analysis, Design for Manufacture, PCB design

INTERESTS

- Running, Electronics, Automation, Medicine, Backpacking (PCT thru-hike in 2023), Conversational Spanish