

Joshua Addington

Mechanical Engineer

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EXPERIENCE

Beacon Medical Products, Bluffdale, UT — *Engineer 1*

July 2024 - Current

- Took responsibility for the design of manufacturing equipment and related testing equipment for medical catheter balloons
- Designed and built a balloon laser cutter that improved a trimming process from an 18% rejection rate to 3% while maintaining speed and quality.
- Utilized various manufacturing processes include blow molding, CNC machining, additive manufacturing, and injection molding.

Teledyne FLIR, Orem, UT — *Mechanical Engineer Intern*

August 2020 - August 2022

- Participated on a team to design drone optical systems for military use.
- Developed a test procedure to diagnose misalignment of optical lenses in thermal cameras. The procedure helped find the error which led to saving 3 technician hours per device manufactured.
- Operated 3D printers, CNC routers, and performed manual machining, holding tolerances of +/- .003" on critical equipment
- Acquired skills in SMD and thru-hole soldering, wire harness creation, and PCB repair.

Wencor Group, Springville, UT — *Metrology Intern*

December 2022 - June 2023

- Applied Geometric Dimensioning and Tolerancing (GD&T) practices per ASME Y14.5 to aircraft parts for reverse engineering.
- Conducted precise measurements and inspections using metrology tools.
- Ensured adherence to quality standards and tolerances

EDUCATION

Brigham Young University, Provo, UT — *Current*

September 2020- August 2025

Pursuing a degree in mechanical engineering with a special interest in mechatronics, robotics, and medical devices

SKILLS

Solidworks CAD
Manufacturable Design
Microcontroller Programming
Python Simulation and Numerical Analysis
JIRA

AWARDS

Eagle Scout Award highest rank in the Boy Scouts of America

President's Service Award

LANGUAGES

English first language
Fluent in Spanish