Joshua Addington

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SKILLS

- **Technology: SolidWorks** (5 years), **SolidWorks PDM** (2 years), **Python**, **ANSYS, Git, C++**
- **Skills:** GD&T, Design for Manufacturing, Prototyping, CNC machining, Sensors and Measurements

WORK EXPERIENCE

Beacon Medical Products   July 2024 – Current | 1 year
Manufacturing Automation Engineer 1   *Bluffdale, UT*
- Designed, built, and automated medical manufacturing equipment. Programmed microcontrollers and chose actuators and sensors to create repeatable and precise mechanisms to support automated manufacturing.
- **Key Results:** Designed, built, and validated an arduino-controlled catheter balloon cutting laser. The machine reduced QC fail rates by 83% and increased throughput from 300 to 700 units per technician daily.
- **Skills Used:** CAD, Mechanical Design, CNC Machining, Rapid Prototyping, Mechanical Testing

Wencor Group   Dec 2022 – June 2023 | 6 months
Metrology Intern   *Springville, UT*
- Aided engineering teams in the reverse-engineering of aircraft components using precision metrology equipment. Presented findings to teams of engineers and evaluated GD&T callouts for proper function.
- **Skills used:** GD&T (ASME Y14.5), Tolerance Analysis, Small Team Collaboration, Engineering Drawings

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. Created test stands and fixtures to accurately measure and test optical systems. Gained awareness of considerations like thermals and vibration in sensitive opto-mechanical systems.
- **Key Results:** Developed, built, and tested a new lens alignment procedure that saved 3 technician hours per unit in assembly. Commissioned a custom protective soft-case from a third-party manufacturer.
- **Skills Used:** CAD with large assemblies, Design for High-Volume Manufacturability, Optomechanical design and testing

EDUCATION

Brigham Young University   Sept 2020 – Aug 2025
Bachelors of Science, Mechanical Engineering   *Provo, UT*
- **Emphasis** in biomedical engineering, controls, manufacturing, and systems level engineering
- **Skills Learned:** CAD, Mechanical Analysis, Thermal Analysis, JMP, PCB Design, FEA
- **Capstone Project:** AI-powered parts recognition software developed for Edwards Lifesciences

INTERESTS | OTHER

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