Burton Rasmussen

Mechanical Engineer

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EDUCATION

University of Utah John and Marcia Price College of Engineering Spring 2027
B.S. Mechanical Engineering | Mechatronics Emphasis
GPA: 3.53

SKILLS

Technical:

- SOLIDWORKS CSWA
- OnShape
- Autodesk Fusion 360
- Microsoft Office
- Python
- MATLAB
- Spanish - B2 level
- Certified IPC Specialist IPC/WHMA-A-620

Laboratory:

- Manual Mill and Lathe
- General Shop Skills
- FDM and Resin 3D printers
- DFM principles in 3D printing
- Rapid Prototyping
- Soldering

EXPERIENCE

ATL Technology | Manufacturing Engineering Technician April 2023 – July 2024

- Performed validations for new manufacturing processes
- Designed fixture to reduce process time and improve pass/fail rates, saving $17,000 yearly
- Designed fixturing in SOLIDWORKS for manufacturing lines in USA and Costa Rica
- Wrote and maintained SOP documentation
- Improved preventative maintenance procedures for manufacturing equipment
- Performed Measurement System Analysis of VNA spectrum analyzers
- Managed and organized spare parts inventory to minimize line-down emergencies
- Gained in-depth understanding of engineering process to medical industry standards
- Collaborated with Quality and R&D departments
- Operated and maintained 3D printing resources for the company
- Responsible for purchasing tools, materials, and machining services

EXTRACURRICULAR

Ucubesat Club (University of Utah) | Mechanical Engineering Team Fall 2024 – Present

- Designed CAD model for electronics housing of weather balloon
- Coordinated space requirements with telemetry and electrical teams
- Gained exposure to space engineering industry

E2i Entrepreneurship Institute (Utah Valley University) Spring – Summer 2024

- Received a grant to develop a prototype of Dobsonian telescope design
  - Developed prototypes focusing on manufacturability at scale
  - Gained experience in working with machine shops

- Worked on a university funded project to develop an innovative sprinkler design
  - Reverse-engineered existing sprinkler design to identify possible improvements
  - Delivered engineering drawings that could be used for creating a patent