

Joseph Tayloe Bowers

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Seattle, WA

LinkedIn

Technical Skills:

- Solidworks
- AutoCAD
- Catia V5
- MATLAB
- 3D Printing
- Figma
- Mentor Graphics
- Revit
- Adobe Design Suite

Certifications:

- SOLIDWORKS Associate in Mechanical Design (2022)
- SOLIDWORKS Associate in Additive Manufacturing (2022)

Volunteering:

- FIRST Robotics volunteer for local events
- CAD software design tutor

Experience

Controls UI Engineer at Amazon Web Services

Seattle, WA

Nov 2022 - Present

- I designed user interfaces for Amazon's data center controls system that are used in hundreds of datacenters across the globe.
- Oversaw the management of a comprehensive global graphics standards package that is implemented across multiple regions.
- Conducted user research through surveys to ensure user accessibility and global UI usability.
- Directed a team of contractors to produce customized graphics for individual datacenter sites according to my graphics standards.
- Interfaced with cross functional engineering teams to coordinate UI updates and corresponding graphics.
- I translated building drawings from various disciplines into simplified graphical representations.

Mechanical Designer at Sarcos Robotics

Salt Lake City, UT

Dec 2021 - Nov 2022

- I designed structural and IP rated parts used in a battery powered robotic exoskeleton system.
- Integrated tools and positioning equipment into a teleoperated robot system for customer demonstrations.
- Developed a custom hand controller with integrated haptic feedback and force sensing capabilities.
- Created engineering drawings of machined, 3D printed, welded, and molded parts used in both R&D and production environments.

Product Development Tech at Biomerics Medical

Salt Lake City, UT

Oct 2020 - Dec 2021

- I created and executed a test plan to characterize a predicate device for use in an endoscope development project. This involved fixture design, understanding regulatory standards, and the authoring of test methods used in design validation.
- Built catheters in a cleanroom environment for use in a clinical trial and FDA submission. I developed standard operating procedures and fixtures to streamline production and increase throughput.

Wire Design Co-op at Boeing Defense and Space

Seattle, WA

Jan 2020 - June 2020

- I assigned wire attributes to logic diagrams on shipside electronics used in the new Air Force One airplane.
- Produced and organized BOMs for sensor package wiring.

Education

Utah Valley University - Mechanical Engineering 2021

- Using MATLAB and C++ I programmed a ball launcher to use inverse kinematics to hit a real world target based on image processed data.

University of Utah - 2015 - 2019