

Tamzin C. Atkins

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Experience

Mechanical Design Engineer

San Francisco, CA

INDEPENDENT CONTRACTOR FOR SIMBE ROBOTICS AND SHAPER TOOLS

Mar. 2017 - Present

- Coordinating with software and industrial design teams to develop mechanical requirements for prototype and production parts.
- Designing parts and assemblies in SolidWorks, and creating manufacturing and assembly drawings - adhering to GD&T and company standards.
- Prototyping rapidly and iterating designs utilizing 3D printers and laser cutters to implement new hardware and design ideas.
- Maintaining functional prototypes for product validation testing.
- Creating tools and fixtures to make calibration and assembly processes up to 10 times faster.

Mechanical Engineer

Sparks, NV

SIERRA NEVADA CORPORATION

Jul. 2016 - Aug. 2016

- Led task distribution among the mechanical engineering team for creating CAD models of a US Navy antenna pedestal.
- Conducted research for off the shelf components and evaluated best replacements for outdated equipment.
- Generated sufficiently thorough finite element models to show failure points were resolved.

Mechanical Engineering Intern

Sparks, NV

SIERRA NEVADA CORPORATION

Apr. 2016 - Jun. 2016

- Created SolidWorks models from drawings to add a US Navy antenna pedestal to company's PDM system.
- Implemented design changes into CAD models to meet shock and vibration requirements.

Undergraduate Research Assistant

Reno, NV

UNIVERSITY OF NEVADA, RENO: DEPARTMENT OF MECHANICAL ENGINEERING

Aug. 2015 - May 2016

- Led development of a hardware enclosure, design conception through production, and assembled 10 final products.
- Modeled enclosure in SolidWorks, and constructed prototypes to verify design.
- Fabricated enclosure by utilizing off the shelf components, local vendors, and machining components myself.

Education

B.S. in Mechanical Engineering

Reno, NV

UNIVERSITY OF NEVADA, RENO

Aug. 2012 - May 2016

- Cumulative GPA: 3.7/4.0.
- Elected Corresponding Secretary (2015-2016) of Tau Beta Pi - The Engineering Honor Society, Member (2014-Present).

Skills

CAD Proficient: SolidWorks | Familiar: Femap/NX Nastran, ANSYS Workbench | DFM, GD&T

Fabrication Rapid Prototyping, Milling, Laser Cutting, 3D Printing

PDM PTC Windchill, GrabCAD

Certifications

Engineer Intern (EIT), License 0T7526

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

Feb. 2016