

# Tamzin C. Atkins

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## Experience

### Mechanical Design Engineer (Contract)

SIMBE ROBOTICS

San Francisco, CA

May 2017 - Present

- Design sensor mounts and conduct testing of sensor performance in robot prototypes for automating retail stock audits.
- Conceptualize, prototype, and construct a training tool for robots to increase speed and accuracy of onboarding in stores.
- Recommend framework design changes to improve robot's structural rigidity.

### Mechanical Design Engineer (Contract)

SHAPER TOOLS

San Francisco, CA

Mar. 2017 - May 2017

- Build functional prototypes of a hand-held CNC router in preparation for engineering validation testing (EVT).
- Design assembly fixtures for manufacturing and increasing ease of conformity on production line during EVT build.
- Create sub-assembly drawings to accompany assembly instructions and for design verification.

### Mechanical Engineer

SIERRA NEVADA CORPORATION

Sparks, NV

Jul. 2016 - Aug. 2016

- Promoted from Intern, created sufficiently thorough finite element models of a radar antenna pedestal from CAD assemblies.
- Conducted initial simulations and obtained static loading responses.
- Coordinated construction of sub-assemblies and final assembly of computer models between colleagues to maximize productivity.

### Mechanical Engineering Intern

SIERRA NEVADA CORPORATION

Sparks, NV

Apr. 2016 - Jun. 2016

- Contributed to the addition of a legacy product to company's PLM system by creating CAD models from technical drawings.
- Implemented predetermined design changes into CAD models to meet shock and vibration requirements.

### Undergraduate Research Assistant

UNIVERSITY OF NEVADA, RENO: DEPARTMENT OF MECHANICAL ENGINEERING

Reno, NV

Aug. 2015 - May 2016

- Led development of a hardware enclosure, conception through production, and assembled 10 final products.
- Adapted to balancing multiple tasks, consistently met intermediate deadlines, and presented status updates to supervisors.
- Determined materials based on design requirements and budget, and acquired machining skills to fabricate components.

## Education

### B.S. in Mechanical Engineering

UNIVERSITY OF NEVADA, RENO

Reno, NV

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

**Fabrication** Rapid Prototyping, Milling, Laser Cutting, 3D Printing, GD&T (ASME Y14.5-2009)

**Programming Languages** Familiar: MATLAB, Python

## Certifications

### Engineer Intern (EIT), License 0T7526

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

Feb. 2016