Tamzin C. **Atkins**

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Experience

Mechanical Design Engineer (Contract)   *San Francisco, CA*

SHAPER TOOLS   *Mar. 2017 - Present*

- 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   *Sparks, NV*

SIERRA NEVADA CORPORATION   *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.
- Researched motors that met electrical requirements and size limitations to modernize and incorporate into current product iteration, and presented available options to electrical engineers.

Mechanical Engineering Intern   *Sparks, NV*

SIERRA NEVADA CORPORATION   *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 to meet shock and vibration requirements.
- Coordinated construction of sub-assemblies and final assembly of computer models between colleagues to maximize productivity.

Undergraduate Research Assistant   *Reno, NV*

UNIVERSITY OF NEVADA, RENO: DEPARTMENT OF MECHANICAL ENGINEERING   *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   *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

Software	SolidWorks, Femap/NX Nastran, ANSYS Workbench
Documentation	GD&T (ASME Y14.5), PTC Windchill, GrabCAD, LaTeX, SharePoint
Machining	Laser Cutting, Milling, Soldering
Programming Languages	MATLAB, LabVIEW, Python

Certifications

Engineer Intern (EIT), License 0T7526

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS   *Feb. 2016*