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## Education

- **M.S. Mechanical Engineering** **Expected Graduation: May 2018**
  - Washington State University Pullman, WA
  - Funded as a Teaching Assistant through the university.
  - Research Field: Development of additively manufactured electronics for use in high temperature applications.
- **B.S. Mechanical Engineering** **Graduation Date: May 7, 2016**
  - Washington State University Honors College, Pullman, WA
  - **GPA:3.93**, Summa Cum Laude
  - Relevant Coursework: Engineering experimentation, Engineering design, Manufacturing processes, Ceramic materials, Fluids, Heat transfer, Thermodynamics, Mechatronics.

## Skills and Qualifications

- Licensed Engineer in Training, State of Washington
- Excels in learning and problem solving.
- Enjoys hands on work, with experience in woodworking, and home and automotive repair.
  - Designing and building furniture like shelves and shadow boxes.
  - Solves problems, like improving access to a band saw and increasing space efficiency of workbench.
  - Experience in mechanical repair (ex: brakes, electrical, general maintenance) on cars and yard equipment.
  - Experience in finding cost effective solutions to improve aesthetic features and comfort of vehicles. (ex: rebuilding seat cushions using off the shelf foam instead of OEM parts)
  - Proficient in electrical soldering and wiring (ex: repairing and replacing guitar electronics).
- Learning how to operate Optomec AJ300 Aerosol Jet printer
- Proficient in the following programs:

○ Solidworks	○ Microsoft Word	○ MPIDE (C++ programming)
○ Autodesk Inventor	○ Microsoft Excel	○ Q programming
○ Autodesk AutoCAD	○ Microsoft Powerpoint	

## Experience

- **Engineering Intern** **May-August 2015**

Sicklesteel Cranes, a division of Barnhart Crane and Rigging

  - Responsible for implementation and testing of proprietary software designed to help engineers place and operate models of cranes in AutoCAD.
  - Responsible for providing feedback to computer programmers to improve program.
  - Responsible for updating company crane fleet in AutoCAD using measurements and pictures.
    - Updated CAD models of over 30 cranes.
    - Created new CAD models for the company fleet, primarily tower cranes and their related equipment.
    - Created multiple components like mats, spreader bars, and lifting devices.
  - Performed over 8 hours of billable CAD work for clients, helping create lift plans for refinery vessels and other parts.
  - Performed finite element analysis, primarily testing the strength of lifting spreader bars.
  - Performed comprehensive inventory of lifting equipment for company, inventorying 300+ pieces of lift equipment spread across two different storage yards.
- **Engineering Intern** **May-August 2014**

Sicklesteel Cranes

  - Responsible for implementation and testing of proprietary software designed to help engineers place and operate models of cranes in AutoCAD.
  - Responsible for providing feedback to computer programmers to improve program.
  - Responsible for updating company crane fleet in AutoCAD using measurements and pictures. Updated over 20 models as well as creating more than 10 new models.

- Performed 12 hours of billable CAD work for clients, creating models of buildings, oil refinery components, and a navy destroyer for clients.

- **Production Intern**

**May-August 2013**

Janicki Industries

- Assisted and learned about Carbon Fiber and Fiberglass production, including layups, infusions, and part removal.
- Waterjet operation. Learned about creating operation programs for the waterjet and responsible for the safe operation of Ward and Flow brand waterjets.
- Planned, budgeted, and created safety maps for main production facility. Map illustrates locations of important manufacturing equipment, safety equipment, and emergency exits.
- Assisted manager in laying out and planning the location of plant improvements.

- **Teaching Assistant**

**August 2016-May 2017**

- Assisting in designing and implementing updates to the equipment in the ME 406 Engineering Experimentation lab under the direction of Dr. Cecilia Richards and Mr. Robert Lenz.
- This lab allows students to perform experiments independently and learn about the Engineering experimentation process.

- **Lab Assistant**

**Spring 2016-Present**

- Lab assistant for Dr. Rahul Panat.
- Assisted in setting up test equipment for 3d printed strain gages.
- Responsible for creating the test station that the equipment is placed on.
- Responsible for solving problems with deflection testing machine, primarily lubrication issues.
- Developing wireless antenna created by Optomec AJ300 aerosol Jet printer.

- **Boeing Scholars Program Student**

**Fall 2014-May 2016**

- Worked in Multidisciplinary group to develop an underwater energy storage system for Boeing.
- Responsible for coming up with the design concept that the project was based around as well as doing relevant calculations.
- Learned to communicate and work with students of other disciplines.
- Improved problem solving skills, modifying concept designs to meet potential manufacturing and transportation requirements.

- **Member of WSU Aerospace Club**

**Fall 2014-May 2016**

- Further increased problem solving skills through redesigning parts for a competition sounding rocket.
- Gained experience in logistics, primarily sourcing and acquiring various parts for the project as well as finding alternatives to unavailable parts.
- Co-responsible for moving launch equipment to test sight.

- **Boeing Mentor Program Student**

**Fall 2014-May 2015**

- Gained experience about engineering as a career from mentor from Boeing.
- Learned about the project management and planning that goes into every project.
- Learned about importance of proper communication in the engineering workplace.

## Awards

- Washington State University President's Honor Roll
- Member of Tau Beta Pi Engineering Honors Society

**Fall 2012-May 2016**

**April 2014-Present**