

Matthew W. Hoeper

MECHANICAL ENGINEERING STUDENT

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Education

Oregon State University

MECHANICAL ENGINEERING - SENIOR

- **GPA: 3.90 (3.95 Major)**
- Expected Graduation: June 2018
- Minor in Aerospace Engineering

Corvallis, Oregon

Sept. 2015 - PRESENT

Skills

Programming Proficient in MATLAB, LaTeX, Arduino, VBA

Software Solidworks, Engineer Equation Solver, Microsoft Office Suite, Microsoft Project

Machine Shop Experience Oregon State's Machine and Product Realization Lab (End Mill, Lathe, CNC Mill)

Educational Activity

Oregon State Intercollegiate Rocket Engineering Competition Team (IREC)

PROPULSION SUB TEAM LEAD FOR 2018 TEAM

- Aided in the process of mixing and packing the propellant. Which resulted in a greater understanding of how solid rocket motors function.
- Assisted structural sub team in carbon fiber layups and testing. Resulted in a greater knowledge of composite manufacturing.
- Various aspects of the rocket lead to experience with layups for pre-preg carbon fiber, fiberglass and kevlar.

Corvallis, Oregon

Oct. 2015 - PRESENT

Oregon State High Altitude Rocket Team

MEMBER

- Assisted propulsion team with manufacturing of the solid rocket motor assembly.
- Designed and built a wireless ignition system for solid rocket motor. Utilizes two arduinos paired via radio.

Corvallis, Oregon

Sept. 2016 - PRESENT

The American Institute of Aeronautics and Astronautics (AIAA)

HEAD OF PUBLIC RELATIONS

- Reaches out to companies to organize tours or to ask distinguished people to give guest lectures.
- Assists in community outreach events that pertain to IREC, Hybrid Rocket, or AIAA in general.
- Generates interest for the club for both prospective students and for the administration of OSU by being a public figure.
- Member of the National AIAA Organization since Oct. 2015.

Corvallis, Oregon

Sept. 2016 - June 2017

Work Experience

Oregon State Propulsion Laboratory

RESEARCH ASSISTANT

- Works alongside graduate student mentor as a part of a thesis project on a pulse detonation engine (PDE).
- Prepares PDE for testing by placing necessary gas tanks, calibrating pressure transducers, and operating LabView.
- Designs and/or fabricates various components necessary to the project.

Corvallis, OR

Feb. - June 2017, Sept. 2017 - Present

Innovative Composite Engineering

ENGINEERING INTERN

- Created data collection system to monitor scrap and defect data for a specific product.
- Worked to develop methods to minimize scrap; focused on a specific product but applied to all parts.
- Conducted final inspections and first article inspections for a plethora of parts using a coordinate measuring machine to check for conformance.
- Supported and worked with other engineers to assist on various projects when manpower was needed.

White Salmon, WA

June 2017 - Sept. 2017

References

Nancy Squires
Senior Instructor
Faculty Advisor of OSU AIAA
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David Blunck
Assistant Professor
PI of Propulsion Laboratory
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