

SEAN BEACHAM

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Address: 421 Greely Road Ext, Cumberland, ME

Education:

Rensselaer Polytechnic Institute - 08/2014 to Present – GPA: 3.51

- B.S. – Aerospace Engineering - Expected Graduation Fall 2017
- M.S. – Aerospace Engineering - Expected Graduation Fall 2018

Experience:

Pratt & Whitney -- *Manufacturing Engineering Intern* -- 5/2017 to 8/2017

- Created work instructions for operators from engineering authorizations.
- Determined and ordered required tooling for new repair lines.
- Designed and rapid-prototyped help tools for various work operations using 3-D printing.
- Assisted in the creation of organized databases for various documents.

Oehlschlaeger Research Group -- *Droplet Dynamics Researcher* -- 9/14/2015 to Present

- Researching the acoustic and physical responses of falling droplets under multiple conditions on substrates of varying surface chemistry and geometry.
- Planning original experiments to gather quantifiable data.
- Designing, machining, and calibrating of laboratory test equipment.
- Data reduction utilizing Excel spreadsheets and Matlab to produce meaningful conclusions.

Rensselaer Rocket Society -- *Current President* -- 8/2016 to Present

- Organizing a team of diverse leaders primarily through resource allocation and time management.
- Writing and assembling proposals, reports, and various design reviews.
- Conveying design elements and reasoning to NASA employees via web conferencing.

Sigco Metals -- *Metal Fabrication Intern* -- 5/2016 to 8/2016

- Reviewed, organized, and conferred work orders on the fabrication floor.
- Operated and maintained cutting tools for precision metal machining.
- Fabricated assemblies with a product development team.

Rensselaer Polytechnic Institute -- *Machining Assistant* -- 8/2016 to 5/2017

- Manufacturing products and components for engineering faculty and students.
- Programming CNC machines using MasterCam.

Rockport Mechanical -- *Engineering and Field Technician Intern* -- 6/2015 to 8/2015

- Performed services required for hardware installation such as soldering and control system setup.
- Analyzed heat loads of buildings to determine boiler and radiator sizing.
- Generated reports with cost estimates and specification submittals.

Rensselaer Polytechnic Institute -- *Resident Assistant* -- 8/2016 to Present

- Creating and implementing team and community programs for resident students of the Institute.
- Responsible for developing a safe, collaborative, and productive environment within residence halls.

Relevant Coursework:

Combustion -- Aeroelasticity -- Aerospace Structures and Materials -- Orbital Mechanics -- Numerical Computing

Skills:

- | | | |
|--------------------|---------------|---------------------|
| • Unigraphics (NX) | • Matlab | • Solumina |
| • AutoCAD | • CAPP2 | • Machining (Basic) |
| • Microsoft Office | • STK (Basic) | • Python |

Leadership and Activities:

- | | | |
|--------------------------------|----------------------------|------------------------------|
| • President of RPI Rocket Club | • Treasurer of Aikido Club | • RPI Founder's Award Winner |
| • Student Advisory Council | • Intramural Ice Hockey | • Alpine Skiing |