

# William T. Harrington, Jr.

**Address:** 13 Sherwood Rd, Hingham, MA 02043

**Email:** harriw5@rpi.edu

**Mobile:** 781-534-8987

## OBJECTIVE:

Seeking an Internship or Co-Op to gain professional design and/or analysis experience in the aerospace industry.

## EDUCATION:

### Rensselaer Polytechnic Institute

**B.S. Aeronautical Engineering & B.S. Mechanical Engineering**

**GPA: 3.64 / 4.0**

**Expected Graduation Date: May 2020**

### Hingham High School

**GPA: 3.95 / 4.0**

**Graduation Date: Jun 2016**

## RELEVANT COURSES:

- Intro to Engineering Design
- Strength of Materials
- Fundamentals of Flight
- Materials Science and Engineering
- Engineering Dynamics
- Graphics and CAD
- Computer Science I
- Engineering Analysis
- Engineering Processes

## SKILLS:

- NX10, Solidworks CAD
- Microsoft Word, Excel, PowerPoint
- OpenRocket simulation and modeling
- Python, Basic MatLab, Maple, and LabVIEW coding

## RELEVANT EXPERIENCE:

### Rensselaer Rocket Society, *Treasurer*

**Sept 2016 - Present**

- Participating in the design and fabrication of a payload (target detection via image analysis) and rocket for USLI competition.
- Responsible for budgeting, component and supply requisitions, record keeping, fund handling and raising, and due collection.
- Act as point-of-contact for potential sponsors and donors.
- Worked in a team of 8 students to design and fabricate a payload which tested the effect on a rocket's flightpath of micro-gravitational liquid sloshing. Done to gain experience in designing, building, and launching a high-powered rocket.
- Perusing level-1 High-Powered Rocketry Certification through the National Association of Rocketry

### Introduction to Engineering Design, *Student*

**Sept 2017 - Present**

- Designed, built, tested, and documented a launcher capable of hurling a marshmallow up to 30 ft.
- Demonstrated launcher, presented and wrote memo detailing the design process and outcomes of the project.
- Currently working on a team of students to do the same for a larger-scale project.

### Sigma Gamma Tau, *Active Member*

**Apr 2017 - Present**

- Inducted into the SGT Aerospace Honor Society

### FRC Robotics Team, *Team Captain*

**Sept 2015 – May 2016**

- FRC Team 5000 – "Hammerheads"; competed in FIRST Robotics Competition.
- Responsible for mechanical, electrical, and pneumatic systems design, assembly, and documentation.
- Oversaw and trained others in parts machining and in aforementioned assemblies.
- Primary robot operator during competition.

## OTHER EXPERIENCE:

### Lifeguard

- Robinson Pool - RPI, Troy, NY Sept 2017 - Present
- Hingham Bathing - Hingham, MA Summers 2015, 2016, 2017
- Peabody Properties - Braintree, MA Summer 2014
- Northwoods Camp - Tuftonboro, NH Summers 2014, 2015

### Academic Tutor

- One-on-one tutor for students with learning disabilities in all subjects.

**Fall 2015**

### Camp Counselor

- YMCA of Greater Boston, Northwoods Camp; Tuftonboro, NH
- Taught sailing, canoeing & kayaking, wilderness skills, etc.

**Summers 2014 & 2015**

## HONORS:

### National Merit Scholar Letter of Commendation

**Jun 2016**

- Scored among the top 34,000 test-takers on the PSAT nationally.

### Rensselaer Leadership Award Recipient

**Mar 2016**

### Benjamin Lincoln Award for Excellence in History

**Jun 2015**

- Selected by history department staff as the most out-standing student of history in high school.

### Inducted into National Honor Society

**May 2015**