

# Owen Hughes

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## EDUCATION

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### Northeastern University (Honors)

*Mechanical Engineering, BS/MS*

GPA: 3.7

**Relevant Courses:** Mechanics and Design, Thermodynamics, Electrical Engineering, Material Science

**Activities:** AIAA, ASME, Symphony Orchestra, Intramural Volleyball

**Boston, MA**

*Expected May 2022*

### Cab Calloway School of the Arts

**Activities:** President of NHS, National AP Scholar, 1st Chair Clarinet All-State Band

**Wilmington, DE**

## SKILLS

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**Languages -** Python, C++, C#, Arduino

**Design -** AutoCAD, SolidWorks, MATLAB, Unity

**Shop -** Laser cutter, CNC Mill, FDM and SLA 3D printing

## ENGINEERING EXPERIENCE

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### NU ReGame-VR Lab - Undergraduate Research Assistant

*Spring 2018*

- Programmed VR game in Unity to increase engagement for pediatric physical therapy
- Modeled a low-cost balance platform in SolidWorks to control the game
- Tested and improved gyroscope to ensure smooth gameplay

### NU Physics Department - Laboratory Assistant

*Fall 2018*

- Improved heat transfer for novel cloud chamber experiment in SolidWorks
- Prepared labs for over 100 physics students
- Calibrated electrical equipment and repaired motors

## PROJECTS

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### Imaging Telescope

*Summer 2018*

- Designed and 3D printed telescope with internet-connected camera
- Motorized telescope with servos to control angle
- Interfaced with Stellarium to track stars as they move to take long-exposure shots

### Intro to Rocketry - AIAA, Northeastern University

*Fall 2017*

- Collaborated with team to design a 7 fin model rocket, reaching target height of 1600 feet
- Utilized Open-Rocket flight simulation software to predict apogee of rocket

### Robotic Arm - Science Olympiad, Cab Calloway School of the Arts

*Spring 2017*

- Designed and automated robotic arm to accomplish tasks
- Led team to win at state level for the first time

## INTERESTS

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Ham Radio, Science Fiction, Space Photography, Backpacking