

OWEN HUGHES

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EDUCATION

Northeastern University (Honors)

Mechanical Engineering, BS/MS

GPA: 3.7

Relevant Courses: Mechanics and Design, Thermodynamics, Electrical Engineering, Linear Algebra

Boston, MA

Expected May 2022

EXPERIENCE

Northeastern University

Undergraduate Research Assistant

Boston, MA

Jan 2018 - May 2018

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

Physics Laboratory Assistant

Aug 2018 - Dec 2018

- Designed novel cloud chamber experiment in Solidworks
- Coordinated electricity labs for physics students

SKILLS

Programming - Python, C++, Arduino

Design - AutoCAD, Solidworks, MATLAB, Unity

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

EXTRACURRICULARS/HOBBIES

- **AIAA** - Designed and launched Level 1 model rocket to 1600 feet *2017 - Present*
- Constructed telescope to image space with Raspberry Pi *2018*
- **Science Olympiad** - Built robot arm with Arduino, led team to win at state *2015 - 2017*
- **National Honor Society** - President, led volunteer work in community *2015 - 2017*
- **Boy Scouts of America** - Senior Patrol Leader, **Eagle Scout** *2010 - 2017*

AWARDS

- **Honors Early Research Award** *2018*
- **1st Chair Delaware All State Band, Clarinet** *2014*
- **Governor's Volunteer Award** *2014*