

# BROOKLYN WAKEFIELD

OLIN COLLEGE OF  
ENGINEERING

## CONTACT INFORMATION

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## PERSONAL PROFILE

Olin College of Engineering undergraduate majoring in Mechanical Engineering. Seeking an internship for the summer of 2022. Specializing in website design and hardware skills.

## AWARDS & ACHIEVEMENTS

### State of Rhode Island Senate and Speaker of the House Of Representatives Citations

- For exemplary representation of the state of Rhode Island during the SeaPerch international competition where my team placed second.

### Newport Public Schools Certificate of Recognition

- For placing third internationally in robotics engineering notebook design competition.

## SKILLS AND ABILITIES

**C++, HTML, JavaScript, CSS, SOLIDWORKS, and MATLAB**

**IC3 Certified** in Key Applications (All Microsoft Office Applications), Living Online (cybersecurity), and Computing Fundamentals.

**Knowledge of electrical circuits and computer hardware**

## EDUCATION

### Olin College of Engineering

**Needham, MA    Expected Graduation: May 2025**

*Bachelors of Science in Mechanical Engineering*

Recipient of 50% tuition merit scholarship

**Notable courses:** Design Nature, Modeling and Simulation

### Rogers High School

**Newport, RI June 2021**

*High Honors Graduate 4.2 GPA*

## EXPERIENCE

### Olin Satellite + Spectrum Technology & Policy (OSSTP)

**Webmaster    2021 - Present**

- Design of a new website design for OSSTP research
- Researching new innovations in the aerospace industry to include in website newsfeed
- Working to implement Python and MATLAB into website functions.

### Olin Design Build Fly

**Aerospace Sub-team    2021 - Present**

- Running advanced processes in AVL to calculate the most efficient airfoil for our competition plane balancing stall factors and speed performance.

### Naval Undersea Warfare Center (NUWC) Newport, RI

**Undersea Technology Apprentice Program Intern    July 2019**

- Studied alongside NUWC scientists and engineers in the undersea testing center.
- Worked with advanced technology such as underwater sonar, camera imagery and live video feed to discover how future naval prototypes can best study the ocean.
- Developed underwater ROV's to function at deep depths with high-pressure. The fabrication process included the use of circuits and Raspberry Pi for control system and outer motors.

### LifeSpan Medical Group Virtual

**Skills for Rhode Island's Future Program Intern    June 2020 - August 2020**

- Collaborated with staff at Lifespan partnered hospitals to come up with practical solutions to address hospital safety during the COVID-19 pandemic.
- Worked with department to create virtual renderings for COVID-19 safe hospital rooms using CAD, as well as a prototype patient visitation registration app.

## Independent Projects

- Creation of a vest for dogs to wear that detects infrared motion, and when triggered, activates multiple rapidly flashing LEDs to scare away coyotes and keep smaller dogs safe - using Arduino Uno, and various electrical circuits. To address Aquidneck Island's coyote overpopulation problem.
- Coding and design of personal portfolios and business websites using HTML, JavaScript and CSS.