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, JavasScript, and CSS.