

# ODEY HARIRI

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Project Website: [www.odeyh.com](http://www.odeyh.com)

30 Seaview Avenue, North Kingstown, RI 02852

Seeking Full Time Position

## EDUCATION

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### Purdue University

West Lafayette, Indiana

Bachelor of Science: Mechanical Engineering, Minor: Electrical and Computer Engineering – May 2024

Purdue Sailing Club Practice Coordinator (Executive Board), EPICS Electric Vehicle Event Infrastructure Course, Electric Vehicle Club member, 3D Printing Boiler Maker Labs Volunteer (30+ hrs.), Robert Rheinstrom Memorial Scholarship

GPA: 3.7

### North Kingstown High School

North Kingstown, RI

HS Diploma – July 2020

Saint Michael's College Book Award for Academic Achievement, National Honor Society Member, Robotics Team Build Leader, Sailing Team Varsity Captain

### New England Institute of Technology

East Greenwich, RI

Completed coursework in Engineering, Game Development, Marine Technology, and Computer Aided Design

## EXPERIENCE

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### Internship – Autonodyne – May 2023 : August 2023

Created a six chambered M40 grenade dropper system attachable to a drone using 3D printed parts. Worked on an autonomous RC fixed wing and created and tested a small drone that would be dropped out of a larger drone during flight. Additionally, I worked on a drone swarming test at Tyndell Airbase in Florida.

### Internship – BWX Technologies – May 2022 : January 2023

Invented an Ultrasonic Immersion testing aid and filed patent for the invention (patent pending). Worked in a team environment to design, create, and test ultrasound transducer scanners to scan for irregularities in metal objects using CAD skills. Gained security clearance for DOE L.

### Sailing Instructor – Greenwich Bay Sailing Association – June 2021 : August 2021

Worked as an instructor for children between the ages of 10-16 and taught them how to sail a small dinghy boat. Earned my Level One Instructor license and worked in a classroom environment and on the water with a powerboat to go through practice drills.

### Internship – Naval Undersea Warfare Center – July 2019 : August 2019

Designed and built an underwater ROV for a competition using PVC pipe and DC motors. Integrated Python code and Raspberry Pi hardware into the system. Worked as a build leader and learned about working with a team and the iterative design process.

## PROJECTS ([www.odeyh.com](http://www.odeyh.com))

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### Sail Talks

Created an instructional website for sailing that could be used in a lesson to help teach beginners and racers. It helps with virtual lessons, making lessons interactive and more effective. Currently is used by many college sailing teams in the Midwest and I am attempting to create a business out of the website. Through the experience, I learned a lot about web development and I improved my coding skills drastically.

### Power Braking

Created a device that helps visualize how fast a car is braking in front of you. It helps decrease accidents, reduce gas consumption, and ease mental fatigue while driving. It works by taking the car's data to calculate deceleration and then powers the light indicators at the rear window to indicate how fast the car is slowing down.

### Motorized Lock Opening Mechanism

Created 3D printed parts and programmed a motor to open a Master Lock. Integrated Arduino and C++ to accomplish precise rotational movement of the motor. Developed understanding of design for manufacturing through part failure.

## KEY SKILLS AND CHARACTERISTICS

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- Inventor, Fusion360, SolidWorks, NX, Creo  
- Excel, Word, & Powerpoint

- DOE L Security Clearance  
- MATLAB, Python, C, C++, JS, HTML, CSS

- Patent Filing Experience  
- English & Intermediate Spanish