Richard Li

CONTACT: 248-635-2186 || RLI@OLIN.EDU

PROFILE

Software engineering student looking for internship opportunities in summer 2023.

PERSONAL WEBSITE: https://richardli03.github.io

Coded a personal website using HTML, CSS, JavaScript, and Bootstrap. On this website you'll learn a lot about the non-software developer me. I'm excited to meet you!

EDUCATION

Olin College of Engineering [Needham, MA] **May 2025**

- BS Engineering: Computing
- GPA: 4.0
- Relevant Coursework: Data Structures and Algorithms, Discrete Math, Software Design.

EXPERIENCE

Olin Electric Motorsports - https://github.com/olin-electric-motorsports/olin-electric-motorsports
Working on a team of 50+ engineers to design, build, test, and race an electric car for Formula SAE

Team Lead: Sensing and Modeling **May 2022 - Present**

- Leading a team to design and implement sensing and data collection capabilities on the car, create new modeling tools, and formalize existing ones.
- Designed the harnessing and PCB placement around the car in communication with fellow leads.

Telemetry: Real-Time Data Visualization **-** https://github.com/richardli03/formula-personal.git **Sept 2021 - Present**
Using Python and Docker, created a real-time vehicle status visualizer system to assist in driver-to-team communication during a race.

OCCaM Lab Research Assistant - https://github.com/richardli03/occam-playground
Creating accessibility tools using AR technology for the blind and visually impaired community.

Visual Alignment with ARGeoAnchors - https://github.com/occamLab/Clew/tree/ClewgleMapsARGeoAnchor **Dec 2021 - Present**

- Used Swift and ARKit to create an AR-based navigation app for the visually-impaired.
- Developed code for an alignment algorithm to fix and benchmark navigational errors
- Worked with +60 blind/visually impaired co-designers to make design decisions

Invisible Map - https://github.com/occamLab/invisible-map-generation **June 2022 - Present**

- Using Python, built a back-end system to benchmark the quality of 3-D maps and improve the optimization algorithm used to correct for drift and inaccuracy in positional detection.

SOFTWARE PROJECTS

Zao: Interactive Terminal Assistant! **Dec 2021 - Jan 2022**
https://github.com/richardli03/Zao

Used Python and Bash to write a package containing scripts that would greet the user upon opening the terminal and, tell the user the weather, and allow the user to add/finish tasks from a todo list.

SKILLS

- Experienced with Python, Swift, and JS.
- Fluent in Mandarin Chinese and professional fluency in French.
- Plays piano, clarinet, guitar, and ukulele, experienced with Logic Pro X and other Digital Audio Workstations