Richard Li

rhli.richardli@gmail.com || www.linkedin.com/in/richardhcli || (978) 496-5448 || Westford, MA, 01886

Education

Bachelor of Science in Computer Engineering, Purdue University Graduation Date: May 2028

- Current GPA: 4.0 / 4.0
- **Relevant Coursework**: ASIC design; Data structures; Signals and systems; Microprocessor Systems And Interfacing; Digital Electronics; Fundamentals of Electrical Engineering circuits; Linear Algebra; Differential Equations; Multivariate Calculus; Adv C Programming; Python for Data Science
- **Organizations**: EPICS (Imagination Station Mag Racers); FPGA Club; PURPL.

Work Experience

R&D Engineering Intern, Fujikura, America Fujikura Ltd (AFL) - Westford, MA Jun 2025 - Aug 2025

- Engineered Laser diode driver prototype: personally manufactured, developed, tested, and presented a successful working prototype of new product 24-fiber multi-fiber visual fault locator (8-fiber MT Tracer Source) under supervision of Principal R&D Optical Engineer.
- Programmed STM32 MCU electronic system with CDC USB communication support (code uploaded to bitbucket via git) and user-input button matrix.
- Demonstrated working functionality, specifications, and quality control (FCC safety regulations pass) in presentations to Product Manager and to the entire company branch (+30 attendance in-person + remote).
- Progressed product development cycle by 1 phase, delivery passed proof-of-concept stage.
- Gained strong analytical skills for datasheet analysis and implementation into design software.

Cleaner, Safety, Parking, Kimball Farm - Westford, MA May 2025 - Jun 2025

- Responsible for cleaning, stocking, and safety of customer cafeteria and parking lots, and customer service.
- Communicated with customers (~1000 daily); gained strong interpersonal skills in service industry.

Experience and Leadership

Design lead, EPICS (Engineering Projects in Community Service): Aug 2024 - Present

- Spearhead key design changes, project direction analysis, and onboarding as team lead to 5 students
- Handle key administrative duties in realistic working environment (documentation, GANTT charts, responsibility management, troubleshooting), learned to prioritize and adjust goals.
- Prototyped and 3d-printed arduino housing and programmed camera-sensor feedback code.

Electrical engineer / Electronics Engineer, Railside Robotics Club: Aug 2024 - Dec 2025

- Designed and assembled electronics for a one-pound combat robot.
- Collaborated with the team of 3 students to make a complete working combat robot (battlebot)

Frontend Lead, Boilermake 12 Hackathon: Feb 2025

- Lead project on visualizing CSV tables displayed in card format.
- Developed and programmed frontend and encouraged team members.

Projects

Raspberry PI AI Camera:

- Used Raspberry Pi 5 with M.2 HAT+ AI accelerator compute module and Camera module to create a deployable front end (React) and backend server (Python) that displays a websocket live-video feed with synchronous real-time AI Object detection (Ultralytics ncnn).

Messaging app clone:

- Engineered front end (I/O using HTML, CSS, JS) and backend (python server, mySQL database) to create a live deployable messaging app.

Technical Skills

- STM32 embedded systems | circuit design, SPICE, Kicad, PCB design | SystemVerilog | Solidworks |
- Programming: Python, MATLAB, C, Java | Javascript, html, css, React