Owen Liao

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EDUCATION

Tufts University   Medford, MA
Bachelor of Science in Electrical Engineering   *May 2027*
GPA: 3.95, Dean's List

Relevant Courses: Embedded Systems, Linear Systems, Electronics, Digital Logic, Linear Algebra

EXPERIENCE

Lavner Education   Boston, MA
Instructor Intern   *June 2024 - August 2024*

- Instructed 40+ students in hands-on robotics, app development, coding, and game design using platforms like VEX Robotics, LEGO Mindstorms, MIT App Inventor, and GameMaker.
- Taught basic engineering concepts, emphasizing problem-solving, logic, and teamwork.
- Mentored students through the process of creating their own projects, demonstrating practical application of engineering principles.

Tufts Technology Services   Medford, MA
Customer Service Representative   *October 2024 - Present*

- Assisted students and staff with troubleshooting technical issues, helping to resolve hardware and software problems efficiently.

PROJECTS

FPGA Arcade Game

- Developed and tested a fully functional arcade game prototype with a team using VHDL and FPGA hardware.
- Debugged and optimized the system to improve gameplay performance.

Pollution Patrol!

- Designed and tested an educational card game on environmental habits for 20+ elementary students.
- Conducted field research and incorporated feedback to improve engagement.

Personal Website (WIP)

- Designed and developed a personal website to showcase 4+ projects. Utilized Figma for design and GitHub for hosting.

VOLUNTEERING

Project Destiny   Boston, MA
Senior Counselor   *June 2022 - August 2023*

- Created and taught nine 80-minute LEGO Robotics classes of 30+ students on robotic sensors, engineering concepts, and introductory programming.
- Led and supervised 5 students in the program.

LEADERSHIP

Tufts China Care   Medford, MA
Treasurer   *September 2023 - Present*

- Managed finances and coordinated projects within a team, demonstrating organizational and leadership skills.

SKILLS

Technical Skills: VHDL, SPICE, Digital Circuit Design, PCB Soldering, Lab Equipment (Oscilloscopes, Multimeters)
Software: MATLAB, Python, Java, C++, GitHub, Figma, HTML/CSS
Hardware: FPGA Programming, Circuit Debugging, Power Electronics, Embedded Systems
Other: Leadership, Troubleshooting, Problem-Solving