

Alan Shiah

[LinkedIn](#) |  | alanshiah.com |  | [GitHub](#)

EDUCATION

University of California, Irvine - Irvine, CA
Bachelor of Science in Computer Engineering

June 2027

EXPERIENCE

UCI Rocket Project, Irvine, CA

June 2025 - Present

Hardware Engineer

- Designing and developing airbrake hardware for a high-powered rocket, creating custom PCBs in Altium and assemblies in SolidWorks to integrate with control and actuation systems.
- Implementing embedded control systems for airbrakes using microcontrollers and Python with sensor logging and flight test validation.
- Contributing to cross-functional hardware efforts on the UCI Rocket Project, building electrical test rigs (e.g., ablative temperature testing rigs, and other miscellaneous circuits) and collaborating with a 40+ member team via Microsoft Teams and Office.
- Level 1 High-Powered Rocketry Certification (Tripoli) - Expected September 2025

NeuroLeap Corp, San Jose, CA

May 2024 - Oct 2024

Software Engineer Intern

- Developing and implementing software enabling communication between microcontrollers and proprietary hardware using I²C protocol.
- Supporting the team in maintaining software integrity through testing and troubleshooting, actively contributing to bug resolution efforts.
- Actively participating in weekly meetings focused on proprietary software and hardware, contributing insights and collaborating on development plans for software and hardware interaction.

ENGINEERING PROJECT EXPERIENCE

MacroPilot Suite

- Developed open source software with GUI for automating desktop tasks, currently featuring an auto clicker with highly customizable settings. Currently expanding functionalities with an auto keyboard clicker, macro automation recorder/player, and key binder.
- Current Downloads: 100+ and can be found at [SourceForge MacroPilot](#) or [GitHub Repository](#).

Portfolio Website

- Created a portfolio website to showcase skills, projects, and achievements. This can be found at alanshiah.com.

Dev Blog

- Occasionally contribute posts on Dev.to, sharing expertise and insights on software development/ethical hacking when inspired to contribute to the community. This can be found at [Dev.to](#).

EXTRACURRICULARS AND LEADERSHIP

Cyberpunks, De Anza College, Cupertino, CA

August 2022 - July 2023

President and Founder

- Mentored ~20 students (~160 in total) concurrently on various topics regarding cybersecurity and ethical hacking.

COMMUNITY SERVICE EXPERIENCE

Trace Labs, Remote, USA

Ongoing

Volunteer Judge

- Volunteered as a judge for Trace Labs' missing persons OSINT search party CTF.

TECHNICAL SKILLS

- Hardware | Electrical | Embedded | Logic Design | Circuit Design | Control Systems | CAD | PCB Design | MCU
- C++ | Python | Verilog | Java | Git | HTML | CSS | SQL | Nmap | Wireshark | Burp Suite | SolidWorks | Altium
- Data Structures/Algorithms | OOP | Unit Testing | Linux | Pen Testing | Network Enumeration | Microsoft Office