

Bradley Miller

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EDUCATION

University of Southern California

Junior pursuing Bachelor of Science in Electrical and Computer Engineering

Honors: Presidential Scholar (Half-Tuition Merit Scholarship), Dean's List Fall 2022 - Spring 2024

Los Angeles, CA

Class of 2026

GPA: 3.85

CAREER EXPERIENCE

Juke Audio

Embedded Software Engineer Intern

Los Angeles, CA (Remote)

June 2024-August 2024

- Contributed seven software features written in C++ to a networking focused project on ESP32 hardware running FreeRTOS.
- Developed software drivers for GPIO use and I2C communication.
- Implemented TCP, UDP multicast, Bluetooth Low Energy, and WiFi protocols for inter-device data transfer.

WSP USA

Electrical Engineering Intern

New York, NY

May 2023-August 2023

- Compiled an electrical database for 20 large-scale commercial projects for engineers to reference for future designs.
- Drafted 4 single line diagrams for commercial electrical systems in AutoCAD to deliver to WSP's government clients.
- Analyzed over 50 existing electrical panel schedules to estimate load and identified space for electric vehicle chargers to be supported.

Eaton Corporation

Electrical Test Engineer Intern

Long Branch, NJ

February 2022-June 2022

- Conducted light, sound, and current draw tests on over 500 fire alarm units for NFPA and ISO compliance.
- Employed skills in soldering to remove and replace resistors, capacitors, and inductors on over 100 printed circuit boards.
- Identified current draw issues on pre-production circuit boards using an oscilloscope and proposed solutions to the lead engineer.

Heliarc

Co-Founder

Rumson, NJ

June 2021-Present

- Raised \$100,000 in angel funding to deploy over 40 Helium IoT hotspots across the US and to stake the Helium cryptocurrency, achieving profitability in five months.
- Performed extensive research on the Helium organization, HNT coin, MOBILE coin, and its supporting community.
- Met with over 40 clients to pitch and plan hotspot and antenna installations and provided updates on hotspot performance over time.
- Analyzed trends in cryptocurrency and IoT markets to make staking and client expansion decisions.

LEADERSHIP AND INVOLVEMENT

USC Makers

Director of Project Oversight

Los Angeles, CA

April 2024-Present

- Supervise 11 project managers, each managing teams of 6-7 engineers, providing guidance, support, and accountability
- Organized and lead a Summer curriculum teaching techniques for ideation, team building, and project structure
- Hold biweekly check in meetings to assess project progress, plan upcoming work, and resolve team conflicts
- Work with the executive board to plan industry design reviews, guest speakers, and a semesterly public project showcase

Tau Kappa Epsilon Fraternity

President (2024), Treasurer (2023)

Los Angeles, CA

January 2023-Present

- Elected to lead a fraternity of 200+ members, managing an executive board of 20 people with an operating budget of \$1.25 million.
- Supervise two residential buildings housing 65 tenants and hosting weekly community events, a full kitchen staff, and athletic facilities.
- Serve as a liaison between the chapter and the alumni board, the national fraternity, and external organizations and contractors.

PROJECTS

The SmarTender (USC Makers)

Project Manager

Los Angeles, CA

May 2023-May 2024

- Pitched a robotic bartender project to club members after a 3 month project ideation and management bootcamp.
- Managed a multidisciplinary team of 6 engineers, hosting weekly team and subteam meetings..
- Planned and executed a 9 month project timeline with scheduled weekly deliverables and a \$600 budget.
- Lead monthly progress presentations and two end of semester public showcase presentations.

COURSEWORK

Linear Circuits

January 2024-May 2024

Software Design for Electrical Engineers

January 2024-May 2024

Distributed Systems for the Internet of Things

August 2023-December 2023

Introduction to Embedded Systems

January 2023-May 2023

SKILLS AND INTERESTS

Software: AutoDesk Fusion 360, AutoCAD, NI Multisim, Revit, QuickBooks, Excel

Programming: Java, C++, JavaScript, HTML, CSS, Python, Matlab

Other: Conversational French, 3D Printing, Carpentry, Piano, Surfing, Snowboarding