

Melissa Chang

EDUCATION

Bachelor of Science in **Electrical Engineering**, GPA: 3.8/4.0
University of California, Los Angeles

Sept 2020 - June 2022

RELEVANT SKILLS

- Programming/firmware: C/C++, Python, Matlab, LaTeX, JSON, Linux, Git, CSS, HTML.
- Lab skills: Digital circuits, circuit analysis, SPICE, electrical test equipment.
- Project Management: Trello, Galileo (new product development), Jira, Marketing

WORK EXPERIENCE

Product Marketing Engineering Intern (similar to PM role)

Texas Instruments, Santa Clara, CA

June 2020 - Sept 2020

- Led the Ethernet team by running meetings, creating plans, and resolving resource conflicts for a product release.
- Operated in a fast-paced, start-up like environment for an investment product line with little oversight and without authority.
- Owned a product with a seven figure lifetime net revenue from definition, development, to the rollout of samples.
- Served as an industrial Ethernet PHY product expert.
- Contributed technical docs, how-to video clips, and sales collateral for Ethernet PHY products.

Researcher in Blockchain and Internet of Things (IoT) Forensics

Partnership between Boatrax and Florida International University, Miami, FL

June 2019 - Sept 2019

- Researched the costs and benefits of blockchain technologies to securely log IoT data in an undergraduate research program despite zero initial background in Blockchain.
- Coded a smart contract in Solidity and Python to develop a decentralized app in Ethereum to process and record boat sensor information from a Raspberry Pi.
- Documented the process in a [technical report](#) in IEEE format and presented my results to Professors and kids.

Business Applications Intern

Trend Micro, San Jose, CA

June 2018 - Aug 2018

- Developed a prototype application in Python connecting Salesforce with Dialogflow to allow company members to perform Salesforce tasks with their voice assistant devices.
- [Documented](#) the application system testing process and wrote a guide for re-creating the application.

PROJECTS

Formula One Racing Electrical Team Member (FSAE)

Davis, CA

Sept 2018 - March 2020

- Collaborated with 3 team members in designing and building the Power Electronics Interface board that controls the battery A/Rs and the shutdown circuit of our team-built vehicle.
- Assisted in assembling the Battery Management System (which involved interfacing between an Arduino-like SPI interface and STM32F4 Discovery kit in C++).

Backend Client-Server Architecture (C++)

Davis, CA

Jan 2020 – March 2020

- Set up a dummy C++ client to push new posts, updates to a localhost server where posts were stored as JSON files.
- Included a functionality to search through hashtags and record the same searches.

Melissa Chang

Embedded Systems Project

Davis, CA

Sept 2019 - Dec 2019

- Programmed a prototype robot (using TI's RSLK MAX kit) that could go towards an emitting sound source using ADC sampling.
- Debugged the robot by analyzing its UART serial output to check that the TXD line was sending out the correct bits with correct baud rate and timing precision.