



Technical and Personal Skills

10+ Years	5+ Years	2+ Years	Beginner
Linux Server	C++	SQLite	MIPS Assembly
Bash Scripting	Java	Python	Solidworks
MATLAB	git	LabVIEW	Windows SDK
Spanish	Wolfram Language	L ^A T _E X	Mandarin Chinese

Projects

Bay Area Rapid Transit Geolocation System

<https://github.com/ejtejada/Geotaggers>

- ◇ Collaborated with mechanical engineering students on an RFID tracking system for tunnels without GPS signal
- ◇ Wrote the Python controls for the Raspberry Pi and antenna boards to secure wireless IO at over 5 foot distances

Society of Automotive Engineers Test Bench

<https://github.com/brevsae/sae-testbench>

- ◇ Ensured safe battery operation using temperature based shutdown switches using C++ and arduinos
- ◇ Streamlined tire and battery configuration simulations with MATLAB and Simulink

MacREU 2017 Image Processing

<https://github.com/ejtejada/MacREU2017ImageProcessing>

- ◇ Built Wolfram library for predicting position for analysis of triangular objects in florescent, moving baths
- ◇ Interpolated future point of interest locations using similarity transforms and a lagrange polynomial

Experience

Undergraduate Intern, Crypto Market Researcher

June 2019 to August 2019

Loopring, Shanghai, People's Republic of China

- ◇ Reported on the code bases and directions of competing decentralized cryptocurrency exchanges
- ◇ Presented on legislation, such as on Libra US senate hearings and FAFT's 2019 travel rules on cryptocurrency
- ◇ Debugged and documented TRON to ERC-20/Ethereum exchanging smart contracts in the Solidity language

Undergraduate Intern, Material Science Department

June 2017 to August 2017

Materials Connection REU, University of California Riverside, Riverside, CA

- ◇ Implemented object tracking the movement of transition metal nanolayers, lowering measurement time
- ◇ Developed portable photoluminescent analysis packages to track reactions with adjustable, high-res cameras
- ◇ Improved reusability and documented the lab's Wolfram/LabVIEW codebase and automated offsite backups

Supplemental Instruction Coach, Mathematics Department

August 2015 to May 2016

Supplemental Instruction Program, El Camino College, Torrance, CA

- ◇ Lead study sessions for students in College Algebra and Statistics that reinforced learning outcomes
- ◇ Designed robust practice exams based on the professor's notes and hosted timed mock exam sessions
- ◇ Created teaching materials and group exercises that fostered Socratic learning and critical testing strategies

Education

University of California Merced, Merced, CA

May 2020

Bachelor of Science in Computer Science and Engineering, Minor in Writing

Selected Coursework: Capstone Design, Intro to AI, Numerical Methods, Writing in the Sciences, Databases, Operating Systems, Computer Vision

El Camino College, Torrance, CA

December 2017

Associates of Arts in English, Associates of Science in Physics

Selected Coursework: Creative Fiction, Differential Equations, Public Speaking, Data Structures, Advanced C++, Statistics, Optics + Modern Physics

Leadership Roles

Electrical Systems Officer @ Formula Society of Automotive Engineers, UC Merced

June 2018 to June 2019

- ◇ Implemented and tested electrical control and safety systems for a formula race car's high voltage components
- ◇ Maintained the codebase and assigned design and naming conventions for all contributors to the project

President @ Inter-Club Council, El Camino College

August 2016 to May 2017

- ◇ Enforced parliamentary voting procedure for ICC, a student government that oversaw all clubs and charters
- ◇ Planned and followed a budget for all club funds, ensuring ICC transparently allocated its \$30,000 for all clubs.

Treasurer @ Programming Applications Club, El Camino College

August 2015 to May 2016

- ◇ Managed funds and budgeted for registration fees and transportation to hackathons in Southern California
- ◇ Ran training workshops for C++ and the STL, algorithms, and design approaches for coding challenges