Edgar Tejada

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Latest Resume

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	LaTeX	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 critical battery operation below 60° C using arduinos for temperature controlled fans and kill switches
- ⬦ Streamlined battery simulations with MATLAB+Solidworks to actualize BMS of LiFePO4 cells in 17s6p array

MacREU 2017 Image Processing   https://github.com/ejtejada/MacREU2017ImageProcessing
- ⬦ Built Wolfram library for predicting position and analysis of triangular metals in florescent benzene baths
- ⬦ Interpolated future points of interest using similarity transforms and lagrange polynomials

Experience

Undergraduate Intern, Crypto Market Researcher   June 2019 to August 2019
Loopring, Shanghai, People's Republic of China
- ⬦ Investigated the public actions of competing cryptocurrency exchanges and compiled findings into internal reports
- ⬦ Presented on the biweekly reports to cross-functional teams composed of developers and the marketing team
- ⬦ 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 of transition metal nanolayers, lowering measurement times by 10%
- ⬦ Developed portable photoluminescent analysis packages to record reactions with adjustable, high-res cameras
- ⬦ Improved reusablity, 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 weekly 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: Intro to AI, Numerical Methods, Writing in NatSci, 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, Public Speaking, Composition, Data Structures, 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 2 annual hackathons in Southern California
- ⬦ Ran weekly training workshops for C++ and algorithms to prepare 9 members for coding and design challenges