Edgar Tejada

edgar_tejada0971@elcamino.edu || https://github.com/ejtejada || Skype: ejtejada_1 || 1−865−201−7787

Latest Resume

Technical and Personal Skills

Languages: Python, C++, Java, Wolfram, MATLAB, MIPS Assembly, Bash Shell Scripting, LabView, SQLite, LATEX

Toolset: Linux, macOS, Vim, git, gcc, QtCreator, Visual Studios, Solidworks, Fritzing, KVM and QEMU virtualization

Spoken Languages: Fluent − English and Spanish   Beginner − Mandarin Chinese

Projects

Bay Area Rapid Transit Geolocation System   https://github.com/ejtejada/Geotaggers
◇ Prototyped an RFID tracking system for BART workers in tunnels without GPS signal as a Capstone project.

Society of Automotive Engineers Test Bench   https://github.com/brevsae/sae-testbench
◇ Ensured adherence to safety guidelines for battery temperature and high inertial emergency shutdown switches.

MacREU 2017 Image Processing   https://github.com/ejtejada/MacREU2017ImageProcessing
◇ Built Wolfram library for predicting position for analysis of triangular objects in florescent, moving baths.

Experience

Undergraduate Intern, Crypto Market Researcher   June 2019 to August 2019

Loopring, Shanghai, PRC
◇ Wrote and 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 reusablity 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 professors' 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 Natural Sciences, Databases, Operating Systems

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 Programming in C++, Statistics

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++, algorithms, and design approaches for coding challenges.

Honors

UC Merced Alumni Scholarship (2019); Benjamin A. Gilman International Scholarship (2019)
Dean's Honor List (2018 to 2020); National Science Foundation Scholarship (2016);
Southern California Edison Scholarship (2015, 2017); El Camino Foundation Scholarship (2015)
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