

Edgar Tejada

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Technical and Personal Skills

10+ Years	7+ Years	3+ Years	1+ Years
Linux Server	C++	UFW firewall	SchoolDude
Bash Scripting	Python	SQL	Google Console
MATLAB	KVM	Arduino	AWS SDK
Spanish	L ^A T _E X	Mandarin Chinese	German

Projects

Yenaldooshi

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

- ◇ Enables full Vulkan and OpenGL acceleration within Ubuntu based virtual machines using P106-100 mining units
- ◇ Modifies X.org files with a Bash script, unlocking gaming and rendering performance within 90% of a GTX 1060

Society of Automotive Engineers Test Bench

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

- ◇ Employs PID controller for high voltage kill switches to ensure battery temperatures remained below 60° C
- ◇ Streamlines battery simulations with MATLAB to actualize Battery Management System of LiFePO4 17s6p array

Scripts4Hotkeys

<https://github.com/ejtejada/Scripts4HotKeys>

- ◇ Creates a useful toolset of scripts that allow managing sandboxed instances of untrusted software via firejail
- ◇ Enables easy keyboard shortcuts in Linux to toggle evdev input devices and to stress test both CPUs and GPUs

Experience

Engineer, School of Engineering

August 2021 to Present

Lennox School District, Moffett Elementary, Lennox, CA

- ◇ Managed a project based makerspace that fosters programming, electronics design, and 3D printing
- ◇ Maintained the function and security of the makerspace's 3D Printers, Laser Cutters, and Chromebooks
- ◇ Led monthly meetings with other engineers so as to submit technology purchase orders from approved vendors

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 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 in Wolfram, lowering measurement times by 10%
- ◇ Developed library to interpolate future particle positions using similarity transforms and lagrange polynomial
- ◇ Improved reusability via libraries, documented the lab's Wolfram codebase, and automated offsite backups

Education

University of California Merced, Merced, CA

May 2020

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

Coursework: Intro to AI, Numerical Methods, Writing in NatSci, Databases, Operating Systems, Computer Vision

El Camino College, Torrance, CA

August 2024

Associates of Arts in English, Certificate in Cloud Computing with Amazon Web Services

Coursework: Creative Fiction, Public Speaking, Data Structures, Compute Engines with AWS, Security with AWS

Leadership Roles

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

June 2018 to June 2019

- ◇ Verified and tested electrical control and safety systems for a formula race car's high voltage components
- ◇ Modeled vehicle kinematics and optimized tire camber using MATLAB and Simulink

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

Certificates

AWS Certified Cloud Practitioner (CLF-C02)

April 2024