Jason Moya

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EDUCATION
California State Polytechnic University, Pomona.
Bachelor of Science, Computer Engineering – GPA: 3.85, May 2025

WORK EXPERIENCE
Coding Mind Academy - Coding Instructor, Diamond Bar, CA   May 2024 - Present
- Engaging students incorporating formulated lesson plans to learn programming fundamentals for future creation and demonstration of projects.
- Guiding two student projects to learn several open source libraries, giving hands on experience integrating code and debugging for future independence.
- Familiarizing students with problem solving methodologies and OOP, enabling good practice of structuring efficient modular code; improving three projects deploying object oriented programming.

Information Technology   June 2022 - December 2022
California State Polytechnic University, Pomona, CA
- Experienced developing code to implement requested features and functionalities on two ServiceNow projects.
- Collaborated with a team of three to construct a UI for users to navigate.
- Engaged in weekly team meetings, suggesting improvements and sharing insights.

PROJECTS   January 2025 - May 2025
Class Project
Xilinx Artix-7 SoC Design

- Created programmable MMIO system with 64 general purpose cores and 8 video cores utilizing MicroBlaze MCS developed in Vivado and Vitis.
- Customized MIDI software programmed restricted by 4,860 Kbits of Block RAM programmed in C++ for easy song creation.

                                                                                 January 2024 – December 2024
Senior Project, Reconfigurable Space Computing Lab
Telescope Drone Project

- Develop a graphical user interface communicating to a Raspberry Pi 4 using Python sockets in a thread to process information in parallel with other UAV applications.
- Formulated and executed a comprehensive strategy to address internet communication dilemmas without a public IP address through integration of a local DNS over VPN server.

Extracurricular activities   August 2021 - March 2023
Mars Rover

- Collaborated closely with project lead and engineering team to provide clear communication on project goals, milestones, and potential obstacles, resulting in timely decision-making.
- Coordinated a team of software developers to create Python3 scripts for manual and autonomous navigation applying hardware, ROS2, and Linux.

TECHNICAL SKILLS
Programming Languages: C, C++, C, Python, MATLAB, Embedded C, Verilog, Microchip ASM, Scala, Chisel
Tools/Platforms: PSpice, Vivado, Vitis, MPlab, VirtualBox, Linux, FreeRTOS, Kiwi Syslog, Git, GitHub
Hardware: FPGA, Function Generators, Oscilloscopes, Microchip MCUs, soldering, Jetson Nano, ESP32, Raspberry Pi