Hesperia, California

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Portfolio: https://cristino4.github.io/My-Portfolio/

About

Full Stack Web Developer and Electronics Engineer with a background in electronics design and development, customer technical support, software testing, and science teaching.

Skills

Software: OrCAD Schematic Capture, AutoCAD, SolidWorks, DTS data acquisition systems, Git &

GitHub

Programming: JavaScript, HTML, CSS, Python, C++, Verilog

Laboratory: Oscilloscope, video signal test equipment, RS232 and IP control,

Networking, Audio/Video system troubleshooting, I2C debugger

Language: English & Spanish

Experience

Broadata Communications Inc. Torrance, CA - Full Time

December 2016 - March 2023

Project Engineer/Test Engineer

Conducted verification and validation testing and reports of professional video electronics

Provided analysis and technical solutions to product failures and implemented corrective actions

Created production test procedures and conducted quality inspections of video electronics

Designed and tested video electronic hardware

Assisted software development team in defining, developing, and testing full-stack software products

Provided on-site assistance for installation and commissioning of video electronics

Applus IDIADA, Adelanto, CA - Full Time

February 2022 – August 2022

Crash Data Acquisition Engineer

Developed vehicle crash test plans based on customer requirements

Communicated with electronics staff vehicle test requirements and vehicle safety information

Coordinated with project engineers on preparations for the crash tests

Installed vehicle sensors and collected hundreds of channels of data.

Analyzed sensor data and created comprehensive test reports

East Los Angeles College, Outreach Education Program – Part Time September 2015 – December 2016 *Adjunct Instructor*

Taught Manufacturing Industrial Technology 220 course (robotics) at high schools Guided students to build and program a small robot and to use a variety of sensors using PBASIC

Gadget Wireless, Cell Phone Business - Full Time

May 2015 – September 2016

Owner/Manager

Managed a business to provide low-cost cell phone plans to customers

Learned to differentiate between services of many pre-paid carriers and created product offerings

Stood out among other competitors by offering free smartphone training

Cell phone Repair Technician, Self Employed – Part Time

January 2013 – September 2016

Offered cellular phone repair services for customers

Self-educated in repair and refurbishing of mobile devices

Troubleshooted malfunctioning tablets and phones and provided solutions

California State University, Los Angeles, CA

DIRECTV Senior Design Project – Internet Connectivity Device

October 2014 - June 2015

Project Engineer

Was responsible for preparing customer meeting agendas, documenting technical progress, maintaining schedule, conducting microcontroller networking research, designing Ethernet communication microcontroller code, and preparing final presentations

East Los Angeles College, Learning Assistance Center – Part Time

February 2013 – August 2015

Science Tutor/Information Technology (IT) Assistant

Tutored students in mathematics, chemistry, and physics

Documented each tutoring session using a Microsoft Access database

Provided computer assistance to students and faculty and conduct supplemental instruction

Education

University of California, Irvine, CA

December 2022 – June 2023

Full-Stack Web Development Boot Camp Certificate

California State University, Los Angeles, CA

September 2018 – December 2019

Master of Science, Electrical Engineering, Computer Engineering (not completed)

California State University, Los Angeles, CA

September 2012 - June 2015

Bachelor of Science, Electrical Engineering

East Los Angeles College, Monterey Park, CA

August 2008 - July 2014

Associate of Science, Computer Aided Drafting and Design