

Cristino Castro

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About Me

Electrical Engineer with experience in electronics design, R&D, technical support, Sales/field support, electronics testing, validation, and Audio-Visual system design.

Education

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

Skills

Software: Windows/Linux, OrCAD Schematic Capture
AutoCAD, SolidWorks, Data acquisition software for vehicle tests
Programming: Python, some Verilog with FPGA, C, automated test scripting
Laboratory: Oscilloscope, video test equipment, RS232 and IP control,
basic IP traffic troubleshooting, PCB soldering,
Audio/Video system troubleshooting
Language: Bilingual in Spanish/English

Experience

Applus IDIADA, Adelanto, CA – Full Time February 2022 – August 2022
Crash Data Acquisition Engineer

- Develop vehicle crash test plans based on customer requirements
- Communicate with electronics staff vehicle test requirements and vehicle safety information
- Coordinate with the project engineer on preparations for the crash tests
- Install vehicle sensors and collect hundreds of channels of data.
- Analyze the data, create and provide comprehensive test reports
- Assist vehicle preparation team in preparing the vehicles for crashes

Broaddata Communications Inc. Torrance, CA – Full Time December 2016 – Present
Project Engineer/Test Engineer

- Conduct verification and validation testing and reports of professional video electronics
- Provide analysis and technical solutions to product failures and implemented corrective actions
- Assist senior hardware/software engineers in validating video electronic products
- Create production test procedures and conducted quality inspections of video electronics
- Design and test video electronic hardware
- Compile customer feedback to design engineers for product improvement
- Provided on-site assistance for installation and commissioning of video electronics

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
- The course is an introduction to robotics and microcontroller programming
- Students learn to build and program a small robot and to use a variety of sensors

Gadget Wireless, Cell Phone Business – Full Time May 2015 – September 2016
Owner/Manager

- Successfully managed a business to provide low-cost cell phone plans

Learned to differentiate between services of many pre-paid carriers
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 in my cell phone business
Self-educated in basic disassembly of mobile devices
Troubleshooting of malfunctioning tablets and phones

California State University, Los Angeles, CA

DIRECTV Senior Design Project – Internet Connectivity Device October 2014 - June 2015

Project Engineer

Responsible for preparing customer meeting agendas, documenting technical progress,
maintaining schedule, conducting microcontroller networking research,
designing Ethernet communication 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

East Los Angeles College, Human-Powered Vehicle Competition Team October 2010 - May 2011

Structural Analysis

Conducted Solid Works stress simulation a tricycle chassis for design analysis
Prepared progress presentations and a final design report
Performed general Failure Mode and Effects Analysis on tricycle components