Christopher Valenzuela

chriss.valenzuela3@gmail.com
(310) 408-3820

EDUCATION

University of California, Irvine – Irvine, CA Graduated: June 2017
B.S. Electrical Engineering and Computer Science
Specialization in Digital Signal Processing and Communications

TECHNICAL SKILLS

Languages	HTML, Javascript (ES6), CSS, C,
Frameworks	Front End: Bootsrap, jQuery Bank End: Node.js
Tools	GitLab, APIs
Miscellaneous	Electrical Engineer fundamentals, MatLab, Solidworks

HANDS-ON EXPERIENCES

Electrical Engineer 1, ***Abbott Laboratories, —*** *Sylmar, CA* *August 2018 - January 2019*

- Utilized hardware devices such as oscilloscopes, DMMs, and AWGs to troubleshoot medical devices.
- Executed sequences and modules via following schematics designed in-house to test the functionality of the medical devices in St. Jude Medical.
- Created design specifications and test reports that satisfied the Automated Test Engineering (ATE) requirements.
- Generated data via dry-runs and official-runs to generate quality and R&D reports for each function of the device being ran.

Entry Level Electrical Engineer, ***Bird Ride Co****, — Culver City, CA* *February 2018 — August 2018*

- Diagnosed and repaired electrical and software issues within the electrical system of the scooter
- Collaborate with the Research and Development Engineering team to help with the design of the new scooter, research Brushless DC motors and lithium-ion battery packs with integrated BMS (battery management system), and chargers in order create a more sufficient battery cycle. Analyzing schematics and learning how to reverse engineer PCB layouts
- Utilize a GSM module called U Blox SARA-U260 or Bluetooth controlled Ninebot chip to track the location of vehicles
- Troubleshoot components, solder wires, and use tools to fix broken parts on the scooter

Undergraduate Researcher, **Visual Light Communication Research,** — UC Irvine, CA Fall 2015 – September 2016

- Team lead of Hardware research and I assisted with optimizing and integrating hardware to assist the software
- Programmed in C Language with an Arduino Uno Board to transmit data through an LED
- Built Visual Light Communication (VLC) prototype

PROJECTS

Sports Sensory Arm Sleeve September 2016 – March 2017

- Team of four that created a sleeve which positions the users elbow with proper form.
- Utilized MPU 6050 accelerometers, LCD, and Arduino Nano's to measure shot angle of user's basketball form

Hover Craft September 2013 – March 2014

- Built a hovercraft that was controlled by an Arduino Uno board and piloted with servo sensors.
- Designed autonomous hovercraft with Solidworks and programmed mainly through C.

LEADERSHIP AND ORGANIZATIONS

Engineer Mentoring the Future, — UC Irvine, CA September 2015 - June 2017

- Acted as a mentor to young engineers (Freshman and Sophomores)
- Job was to give advice, share personal experiences, and guide mentees