Christopher Valenzuela

chriss.valenzuela3@gmail.com | https://www.linkedin.com/in/christopher-valenzuela/ | github.com/christsv | **(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

- **Front-End:** HTML, CSS, JavaScript (ES6), Bootstrap, jQuery, API Calls, C Programming,.
- **Back-End:** Nodejs, MySQL, FireBase.
- **Tools:** GitHub, Visual Studios Code.
- **Miscellaneous:** Electrical Engineer Fundamentals, MatLab, SolidWorks, Arduino Experience.

PROJECTS

Bird Attendance Sheet *March 2018*

- https://christsv.github.io/BirdAttendanceSheet/
- Created prototype for signing in scooters at my Electrical Engineer Department at Bird Ride Co.
- Utilized **Firebase** as back-end database to store scooter IDs. Each unique key is accessed to calculate the performance of each technician.
- Utilized **HTML**, **CSS**, and **Bootstrap** for front end.

Personal Website *April 2019*

- https://christsv.github.io/ChrisValenzuela
- Built a personal website via **HTML** and **CSS.** This website highlights my creativity, style and portrays my progression as a web developer and an engineer.
- Utilized **Ajax** for API calls to create a "Quote of the Day" section.
- Extensive **Bootstrap, CSS Animations** and **jQuery** to style and set up the semantics of my website.

Sports Sensory Arm Sleeve *September 2016 – March 2017*

- Team Lead of four that created a basketball sleeve to improve users "basketball shot form."
- Utilized MPU 6050 accelerometers, LCD, and Arduino Nano's to measure shot angle of user's basketball form.
- Formulated the equations for the accelerometer code via C.
- Utilized SolidWorks to calculate the measurements for system integration and soldering.
- **Tech: Arduino Components, C Programming, SolidWorks**

WORK/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.
- Created design specifications and test reports via Microsoft Excel 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.
- **Tech: Oscilloscopes, JavaScript, Microsoft Excel.**

Electrical Engineer/Developer, ***Bird Ride Co****, — Culver City, CA* *February 2018 — August 2018*

- Developed prototypes for the logistics of tracking scooters repaired in our Technical Department.
- Collaborated with 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.
- Utilized a GSM module called U Blox SARA-U260 or Bluetooth controlled Ninebot chip to track the location of vehicles.
- Developed Troubleshooting skills to determine hardware/software malfunctions in the scooter.

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

- Team lead of Hardware, researched and assisted with optimizing and integrating hardware to assist the software.
- Programmed in C Language with an Arduino Uno Board to transmit data packages via an LED diodes.
- Built Visual Light Communication (VLC) prototype.
- **Tech: C Programming, Arduino Components, Electrical Engineer Fundamentals**