

# ZHUORAN DUAN

(310) 694-2960 ◊ electromagnet525@gmail.com

## EDUCATION

---

### University of California, Los Angeles

September 2014 - Present

3rd Year Electrical Engineering

Cumulative GPA: 3.83/4.0

Major GPA: 3.95/4.0

Member of Tau Beta Pi

Member of Eta Kappa Nu

Dean's Honors List (All Quarters)

### Relevant Coursework:

Circuit Analysis and Design

Semiconductor Theory and Device Design

Analog/Digital Signal Processing

Logic Design for Digital System

## EXPERIENCE

---

### Ricardo Software

June 2016 - August 2016

*Intern*

- Designed an inverter that can directly control the torque of a 3-phase motor using Dymola
- Designed and implemented inverter objects for IGNITE, a Ricardo Software product

## PROJECT

---

### Natcar

Sep 2015 - May 2016

*UCLA IEEE Project*

- Designed and constructed a race car that is able to automatically follow the white line on track
- Used Arduino to control the car, designed PCB for the control circuit, worked with linescan camera and 3D printing CAD
- Finished the track in UC Davis Natcar Competition
- Competition Video: <https://youtu.be/LBAwFanJ0Mc>
- Arduino Code: <https://github.com/lwei0402/NATCAR2016>

### Watchdog

Jan 2016

*UCLA Idea Hacks Project*

- A security device for valuable objects that can send alerts remotely to user when the object is moved
- Used Arduino to control the device and PubNub to store information
- Demonstration Video: [https://youtu.be/2ygrW2NKT\\_M](https://youtu.be/2ygrW2NKT_M)

### iVote

Apr 2016 - Jun 2016

*UCLA CS M117 Project*

- A bluetooth voting app that can anonymously collect and count the opinion of people nearby
- Used CoreBluetooth framework on Swift to implement the app
- Demonstration Video: <https://youtu.be/1OOPx5RPj-8>

## SKILLS

---

### Software:

C++|Matlab|Python|Assembly|LaTeX

### Hardware:

Arduino Programming

PCB Design using EAGLE

Model Design and Simulation using Dymola

Circuit Design and Implementation