

# Likai Wei

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## OBJECTIVE

Electrical Engineering Hardware internship for summer 2017

## EDUCATION

### UCLA

Electrical Engineering, B.S.  
2014 Sept - 2018 Mar(Expected)  
Los Angeles, CA  
Major GPA: 3.74  
Cum. GPA: 3.6

## AWARDS & HONORS

Dean's Honors List Fall 2015  
Dean's Honors List Spring 2016  
Eta Kappa Nu (HKN) Member  
Upsilon Pi Epsilon(UPE) Candidate

## COURSEWORK

### ELECTRICAL ENGINEERING

Circuit Theory  
Analog Electronic Circuits  
Logic Design of Digital Systems  
Digital Signal Processing  
Engineering Electromagnetics  
Principles of Semiconductor Device

### COMPUTER SCIENCE

Intro to Computer Organization  
Introduction to Algorithms  
Software Construction Laboratory  
Computer Networks: Physical Layer

## SKILLS

### LANGUAGES

English(Proficient) • Chinese(Native)

### PROGRAMMING

Experienced:

C++ • C • Arduino

Familiar:

Python • Matlab • Swift & IOS

Assembly • Linux & Shell • L<sup>A</sup>T<sub>E</sub>X

### OTHER

Soldering • Breadboarding  
Eagle PCB Design • Verilog  
Autodesk Fusion360/Inventor

### INTERESTS

Circuit and System  
Computer Architecture

## RESEARCH

### HOWARD HUGHES MEDICAL INSTITUTE UCLA | Researcher

2016 Sept - Present

- Researched on portable microscope project with Zoltan S. Gorocs, Ph.D.
- Collaborated on designing circuits using knowledges of circuit design, PCB design and micro controller

## PROJECTS

### NATCAR | UCLA IEEE NATCAR TEAM | 2015 Sept - 2016 May

Project Video: <https://youtu.be/3QjkWwK9zoA>

Github: <https://github.com/lwei0402/NATCAR2016>

- A line-tracking car implemented using Arduino, PCB and linescan camera
- Created prototype of PCB board and algorithms for line-tracking
- Designed 3D-printed mounting using Autodesk Fusion360/Inventor
- Completed race track in UC Davis NATCAR Races 2016

### IVOTE | UCLA CS M117 Course | 2016 Apr - 2016 June

Github: <https://github.com/kevinfan23/CSM117>

- An iOS voting app for small groups implemented by Core Bluetooth
- Programmed communication feature between central and peripheral devices using Swift and collaborated on UI design

### WATCHDOG | UCLA IDEAHACKS 2016 | 2016 Jan

Project Video: [https://youtu.be/2ygrW2NKT\\_M](https://youtu.be/2ygrW2NKT_M)

- A security system for unattended item implemented using Arduino Zero, notification will be sent to web server if the item has been moved/stolen.
- Assembled and tested the circuit for detecting movement using IMU
- Implemented the feature of lock/unlock the device with numerical keypad

### SMART MINE | 2015 Thales Arduino Challenge | 2015 Nov

Project Video: <https://www.youtube.com/watch?v=DYsnrreevs8>

- A prototype for smart mine that can distinguish enemies and allies
- Implemented GPS chip and LED indication on prototype using Arduino
- Be invited to Thales Project Arduino Showcase

## EXPERIENCE

### UCLA HENRY SAMUELI SCHOOL OF ENGINEERING AND APPLIED SCIENCE | Tech Camp Mentor

2016 Jan - Aug

- Designed technical projects and authored curriculum modules for high school students for Dean's Outreach Program.
- Developed and delivered college-level skills workshops in soldering, circuitry and programming for audio amplifier project.
- Managed lab space and mentored 16 students over 2 four-week sessions

### INTERNATIONAL STUDENT ASSOCIATION | Vice President

2015 Oct - Present

- Organized and coordinated cultural and social events such as UCLA World Insight, Hollywood Hike and Languages Workshop
- Recruited and mentored new board members for various positions