

# Xuwei Liu

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## Education

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University of California, Los Angeles

(Fourth year, expected June 2018)

Bachelor of Science, Electrical Engineering

Cumulative GPA: 3.747; Major GPA: 3.739

Dean's Honor List: fall quarter 2014, spring quarter 2016

**Coursework includes:** Logic design of Digital Systems, Systems and signals, Circuit Theory and Laboratory, Electromagnetics, Digital Signal Processing, Probability and Statistics, Semiconductors, Computer Operating Systems and Assembly Language, Intro to Computer Graphics, Communication Systems, Electromagnetic Waves, Principles of Photonics, Principles of Feedback Control.

## Skills

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- Software: C++/C, Java, ArduinoIDE, MATLAB (including simulink), LabView, HSPICE;
- Hardware: Soldering, PCB design(Eagle, Candence), myDAQ, Oscilloscope and other lab equipments.
- Language: English, Mandarin (native).

## Engineering Projects

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- **UCLA IEEE Micromouse Program** (UCLA, 2016.10-2017.4)  
Build an autonomous robot that finds the center of a 16\*16 maze. Use STM32 to control the car and IR sensors and encoders to sense the route. Primary skills include schematic capture, PCB design, soldering and programming.
- **UCLA IEEE Natcar Program** (UCLA, 2015.9-2016.6)  
Build an autonomous line-following robotic vehicle. Use Arduino to control the car, a linescan camera as the primary sensor to sense color of the route, together with inductors as the secondary sensor to sense the current flowing under the route. Primary skills include transistor operation & usage, feedback and control systems, PCB design and embedded programming.
- **DSP in action: Image Processing Using MATLAB** (UCLA, 2016.4-5)  
Use MATLAB to implement convolution, filters, sampling and DCT to achieve the purpose of image blurring, edge detection, image resizing and image compression.

## Work Experience

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- Summer Internship as an Investment analyst at Chengdu TMT Fund Richland Equities (2016.8.1-2016.8.31, Chengdu, China)
- Reader for EE 113: Digital Signal Processing (2016.10-12, UCLA, Los Angeles)
- Reader for EE 141: Principles of Feedback Control (2017.4-6, UCLA, Los Angeles)
- Summer Internship as a hardware engineer at Shenzhen Yihua Computer (2017.6.25-8.17, Shenzhen, China)

## Affiliations

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- Core Member of UCLA Table Tennis Club Women's Varsity Team (2014.9-2016.6)
- Treasurer of UCLA Table Tennis Club (2015.9-2017.6)
- Member of Eta Kappa Nu (HKN), Electrical Engineering Honor Society, UCLA (2016.10-Present)
- Undergraduate Researchers of The Ozcan Research Group (2017.10-Present)