

# WENLONG XIONG

COMPUTER SCIENCE AND ENGINEERING *at the* UNIVERSITY OF CALIFORNIA, LOS ANGELES  
GPA: 3.75 | CLASS OF 2018

## WORK & EXPERIENCE

**VCLA Center at UCLA**, Los Angeles, CA

July 2015 – Sept 2015

*Student Researcher, Programmer*

- + Created simulation program that performs real-time error checking against robot arm position
- + Designed python program to generate 3D Maya models from CSV output
- + ICRA 2016 Robot Learning Research Paper contributor

**Plethora**, San Francisco, CA

June 2014 – Sept 2014

*Factory Automation, Programming Intern*

- + Designed, assembled, and tested automated CNC part-loading structures
- + Programmed Beaglebone/Arduino-controlled robotic systems
- + Tested and optimized in-house CNC-based manufacturing processes
- + Created CAM programs and operated 3-Axis, 5-Axis CNC Mills

**Avetra Biosciences**, Menlo Park, CA

June 2013 – Aug 2013

*Product Development Intern, Independent Researcher*

- + Analyzed miRNA and protein content of human exosomes in order to develop human blood/urine exosome isolation kits
- + Performed wet lab procedures, including PCR, gel electrophoresis

## ACTIVITIES & PROJECTS

**UCLA IEEE Student Branch**, Los Angeles, CA

July 2015 – Current

*Treasurer, Bruin Startup Fair Organizer, Corporate Funding Team*

- + Manage organization finances and approve over \$25k of purchases
- + Communicate with over 60 corporations and negotiate sponsorship deals
- + Help organize startup-focused career fair with over 35 startups

**LeapCAD @ LA Hacks**, Los Angeles, CA

Apr 2015 – May 2015

*Python and Mel Script Programmer*

- + Wrote program that manipulated 3D models using LeapMotion Controller
- + Connected motion capture output with Maya API using Python, MEL, C++

**Micromouse Team**, Los Angeles, CA

Oct 2015 – May 2015

*C++ Programmer*

- + Built a rat sized robot that used a modified version of the FloodFill algorithm to navigate a 16x16 maze
- + Interpreted IR sensor, gyroscope sensor output using a Teensy

**FIRST FRC Gunn Robotics Team #192**, Palo Alto, CA

Aug 2011 – May 2014

*Vice Captain, Financial Lead, Mechanical Designer*

- + Managed team and facilitated overall design and testing of robot
- + Manufactured components using manual, CNC mill and lathes
- + Communicated with over 15 corporate sponsors and applied for over \$5k of federal grants

## SKILLS

### PROGRAMMING & PROTOTYPING

- + C/C++
- + Python
- + Java
- + BASH Shell
- + Arduino
- + Teensy
- + Beaglebone
- + Raspberry Pi

### MANUFACTURE & MODELING

- + Solidworks
- + Inventor
- + Maya
- + HSMWorks
- + CNC Mill
- + Lathe
- + TIG Welding
- + 3D Printing

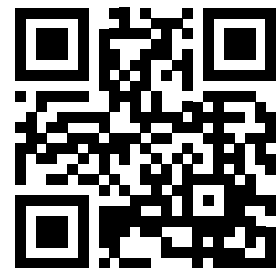
### ADDITIONAL LANGUAGES

- + English
- + Mandarin
- + Spanish

## EDUCATION

- + Algorithm Design & Complexity
- + Operating Systems Principles
- + Computer Networking
- + Database Systems
- + Intro to Computer Architecture
- + Data Structures & OOP
- + Logic Design of Digital Systems
- + Linear Algebra & Applications
- + Differential Equations
- + Intro to Discrete Mathematics
- + Intro to Probability Theory

## CONTACT & INFO



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