

# Frank Chen

kfrankc.me

frank.chen@ucla.edu | 510-565-8237

## EDUCATION

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

BS IN COMPUTER SCIENCE  
Expected Spring 2017

### HONORS / SCHOLARSHIPS

Upsilon Pi Epsilon  
Eta Kappa Nu  
Gerald J. Popek Scholarship in  
Computer Science

### MISSION SAN JOSE H.S.

Grad May 2013

## LINKS

Github: /kfrankc  
LinkedIn: /kfrankc  
Medium: @kfrankc

## SKILLS

### LANGUAGES

C++/C, MATLAB/Octave,  
HTML/CSS, Javascript

### TECHNOLOGIES

Visual Studio / CLion, Git, React.js  
Shell/Bash, Arduino IDE  
AutoDesk, OpenCV

## COURSEWORK

Artificial Intelligence  
Mathematical Modeling  
Operating Systems  
UNIX/Linux Programming  
Database Systems  
Functional Programming  
Cybersecurity

## LEADERSHIP

### Resident Assistant

Fall 2015—present  
Responsible for a floor of 90 residents  
in UCLA Residential Dorms.

### IDEA Hacks Organizer

Fall 2015—Spring 2016  
Sponsorship organizer of UCLA's  
Hardware Hackathon

### Bruin Entrepreneurs

Fall 2014—Spring 2015  
Led incubator program for UCLA  
student entrepreneurs

## EXPERIENCE

### JET PROPULSION LABORATORY

COMPUTER VISION RESEARCH INTERN Pasadena, CA | June 2015 — June 2016  
> Research Intern under Dr. Thomas Lu (349B)  
> Spearheaded tracking + segmentation of IR image signatures from infrared images; Built testbed for multi-bandwidth correlation  
> Implemented neural network training module for intelligent classification of infrared targets + achieved 90 % accuracy for tracking targets  
> Published paper at SPIE Optical Pattern Recognition XXVII 2016  
> Currently working on SPIE Segmentation paper for San Diego Conference

### CENTER FOR VISION, COGNITION, LEARNING, AND AUTONOMY

UNDERGRADUATE RESEARCHER Los Angeles, CA | March 2016 — June 2016  
> Undergraduate researcher for Dr. Song-Chun Zhu  
> Research in causal relationships, fluent extraction, & learning  
> Built detection + tracking modules in OpenCV for teaching robots to fold shirts  
> Submitted paper to Neural Information Processing Systems (NIPS) conference

### WORKDAY

APPLICATION DEVELOPMENT INTERN Pleasanton, CA | June 2016 — present  
> Implemented Tax Location Mapping Reports as part of Workday 28 Release.  
> Created XML parsing API for Workday Web Services  
> Actively involved in Workday's agile development methodologies

### TABOOLA

SOFTWARE ENGINEERING INTERN Los Angeles, CA | March — June 2016  
> Implemented user authentication systems using React & Node.js  
> Built modules to communicate with Taboola Backstage API from scratch

### THE DAILY BRUIN

ONLINE PROJECT MANAGER Los Angeles, CA | Sept 2014 — March 2016  
> Spearheaded complete re-design of *Spectrum*, Daily Bruin's photo blog.  
> Led a team to build interactive website for UCLA dorm communities.  
> Presented workshop on Sublime + Git tools for new incoming Online DB staff.

## PROJECTS

### IEEE NATCAR

Los Angeles CA | Sept 2014 — June 2015  
Design, build, and race an autonomous RC car on customized windy tracks  
marked by 1"-wide white tape  
**1st place** at UC Davis NATCAR Competition of 40+ teams,  
**3rd place** at UCSD Grand PrIEEE Competition out of 30+ teams

### ROBOHOME [IDEA HACKS 2016]

Los Angeles CA | Feb 2016  
Created model home with door, lights, shower, and TV that can be remotely  
controlled using Myo armband, Pebble, Smartphone, and laptop.  
**1st Place** out of 200+ competitors

### MYODRONE [PENNAPPS 2015]

Philadelphia, MA | Jan 2014  
Built a selfie-drone controlled using the Myo armband + Intel Edison  
**Top 30** out of 1000+ competitors

## PUBLICATIONS

2016 SPIE Cross-Correlation and Image Alignment for Multi-Band IR Sensors