

# Ashutosh Shiledar

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Highly motivated, with extensive applied laboratory experience, academically focused Electrical Engineering student seeking challenging summer internship in the field of Software development.

## Education

### Bachelor of Science in Electrical Engineering

University of California, Los Angeles

GPA: 3.85      Expected graduation date: June 2016

## Honors

Dean's List Recognition

Member of Tau Beta Pi Engineering Honors society

## Engineering Coursework

Circuit Analysis (EE 10/110), Digital Logic Design (CS M51A),

Electromagnetics (Physics 1B/C, EE 101A/B), Signal Processing (EE 102/113),

Data Structures (CS 32), Computer Organization (CS 33)

## Skills

- Code development in C/C++, Java, Python, and Android
- Experience using OpenCV libraries
- Worked with with Eagle CAD
- Windows and Linux Development
- Experience using breadboards and development boards - mbed and arduino
- Designed circuits using Microchip PIC microcontrollers
- Soldering through hole and SMD

## Relevant Experience

### Undergraduate Researcher

April 2013 – Present

Perform research activities under the direction of Professor Ozcan

- Create instruments based on various mobile devices for biological and medical imaging applications
- Write mobile applications to process data and display the results from the instrument
- Work with Java JNI and OpenCV libraries to process the images on Android platform

### UCLA Robotics Club

September 2012 - Present

Project Lead for 2013-2014

- Competes in the RoboMagellan competition, 4th place 2013
- Built an autonomous robot that can navigate to specific locations in a large outdoor field using various sensors including gps, camera, and IMU
- Work with microcontrollers to interface with killswitch and bumpers and link to the main computer through serial
- Write code for computer vision and object detection

### High School Robotics Team (AVBotz)

September 2009 - July 2012

Vice President of the Electrical Division

- Compete in AUVSI Robosub competition, semifinalists
- Developed an autonomous submarine to navigate an obstacle course using cameras, IMU, pressure sensor, and passive sonar
- Improved power management and integrated external servo modules into the main system

## Other Activities

- Member of UCLA Marching Band, Clarinet Section      2012 - 2013
- Member of Amador Valley Marching Band      2008 - 2012
- Volunteer Mentor at Middle School Robotics Club      2009 - 2012