

# Michael Vartan

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## Education



California State University Long Beach • Graduating with honors in May 2016  
Bachelor of Science in Computer Engineering • Minor in Computer Science

## Work Experience

### Raytheon Company

2015 – 2016

#### Software Engineering Intern

- Obtained secret level security clearance. Took special interest in encryption and security.
- Developed verification software for RADAR. Consolidated several C command line tools with UI. Wrote binary file parsing system in C++.

### Exergy Controls

2014 – 2015

#### Hardware & Software Engineer

- Designing/developing web application which controls thousands of light fixtures simultaneously.
- Designing firmware for ARM chip, developed new product line for distributing and playing light shows.
- Solely responsible for development of bluetooth android app, direct communication with customer.

### California State University, Long Beach – College of Engineering

2012 – 2014

#### Computer Tech/Peer Advisor

- Developed programs to generate students' semester schedules, parse transcripts, and analyze performance. Created web app for hundreds of students to make appointment with our advisors.
- Met with students one-on-one to discuss their studies, prospective courses, and future goals.

### Microsoft

2013 – 2014

#### Microsoft Student Representative

## Technical Skills

Web Development  
Javascript · PHP (node)

App Development  
Java · Objective-C/Swift

Scripting Languages  
Python · MySQL

Low Level  
C · C++ · ARM Assembly

## Awards/Involvement

### Zeebo Autonomous Submarine

2014 – 2015

- Architected & developed event-based communications/protocol between hardware systems.
- Developed six-degrees-of-freedom motor control algorithm; PWM implemented via hardware timers.
- Prototypal image recognition control system via openCV & nodeJS

### Embedded Applications Technology Society

2012 – Present

- Hosting weekly meetings, in which responsibilities include planning, speaking, and finding speakers.
- Managing teams involved in projects and national competitions

2012 – 2013  
Webmaster

2013 – 2014  
Vice President

2014 – 2015  
President

### UCLA Developer's Contest – First Place

2014

- With a teammate, developed a mobile-first web application for tracking/improving students' study habits.

### Personal Projects

- I work on many software development projects which I document at [github.com/vartan](https://github.com/vartan)