# Michael Vartan

1072 w 24th St. San Pedro, CA 90731

(310) 989-6757 · michael@mvartan.com · www.mvartan.com

## Education

**3.9 GPA**

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
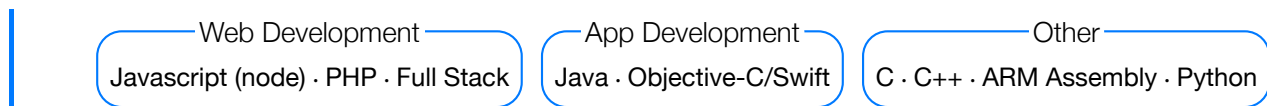2012 – 2014

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 (node) · PHP · Full Stack

App Development
Java · Objective-C/Swift

Other
C · C++ · ARM Assembly · Python

## 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 | 2013 – 2014 | 2014 – 2015 |
|---|---|---|
| Webmaster | Vice President | 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.