

William P Smith

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Education

University of California, Berkeley | B.S. EECS | Dec 2017

Cumulative GPA: 3.7

Orange Coast College | A.S. Engineering/ Mathematics | May 2015

Technologies: Python, Java, C, C++, Swift, SQL, Matlab, Bash, MIPS, Scheme, JavaScript, OpenMP, Vuforia, LabVIEW

Relevant Courses

Spring 2017:

- Operating Systems & Systems Programming
- Database Systems

Completed:

- iOS Development
- Embedded Systems
- Designing Information Devices and Systems I & II
- Machine Structures
- Discrete Mathematics and Probability Theory
- Signals and Systems
- Artificial Intelligence
- Data Structures
- Structure and Interpretation of Computer Programs
- IEEE Micromouse Robotics

Experience

UC Berkeley College of Engineering – iOS Development Teaching Assistant

Jan 2017 – Present

- Teach concepts and best practices for iOS mobile applications development in Swift and Objective-C.

Boeing – Satellite Payload Systems Software Engineer Intern

May 2016 – August 2016

- Proposed and implemented NP-Hard graph coloring algorithm and tool to automate a complex design process.
- *Tool saves weeks of man-hours per use. Proved integral in winning \$100M+ satellite design contract.*

Berkeley Hyperloop (bLoop) – Signals and Controls Team Lead

Oct 2015 – Aug 2016

- Led team of 14 in design of robust embedded control systems for SpaceX Hyperloop Pod Competition.
- *Resulted in being among only 24 teams selected for SpaceX final build approval.*

UCLA Wireless Health Institute – Undergraduate Researcher, Internet of Things

June 2015 – August 2015

- Designed, prototyped, and presented novel IoT cloud based robotic car platform, sponsored by Intel.
- *Project and code are now used as framework for a UCLA engineering course currently being built.*

Select Projects

RNDR – Cal Hacks 3.0 Hackathon Project – Swift, Objective-C, Vuforia, Firebase, Heroku

Nov 2016

- RNDR is an augmented reality social network. It allows users to post and share virtual objects in the real world.
- Built the iOS app frontend and interfaced with Vuforia SDK and Firebase backend.

Air Doodle – Gesture Recognition Toolkit (GRT), Deep Learning, Python, C++, Embedded Linux

Nov 2016

- Implemented a gesture recognition system. Allows user to print characters to LED display by drawing in midair.
- Implemented Machine Learning (Dynamic Time Warping), dead reckoning, and sensor fusion algorithms.

Speech Controlled Robotic Vehicle

March 2016

- Implemented a robotic car capable of recognizing and reacting to natural language commands.
- Applied Machine Learning algorithms and Data Science techniques for speech recognition.

Accomplishments

- **United States Marine Corps Veteran** (Sergeant, Division Supervisor, 9 years, Honorable Discharge)
- **Several Prestigious Awards, including:** San Disk Scholarship • Buick Scholarship
Edison Scholarship • Doyle Scholarship • Pepsi Scholarship • Marine Corps Meritorious Mast