# 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

**Languages**: **C, C++, Python, Swift, Java, Matlab, SQL, Bash,** JavaScript, Objective-C, MIPS, Scheme, Racket
**Technologies**: **Google App Engine, Heroku, Flask, Firebase**, XCode, Vuforia, Jupyter, LabVIEW, OpenMP

## Relevant Courses

- Operating Systems & Systems Programming
- iOS Development
- Embedded Systems
- Design of Information Devices and Systems I & II
- Machine Structures
- Discrete Mathematics and Probability Theory
- Database Systems
- Signals and Systems
- Artificial Intelligence
- Data Structures
- Entrepreneurship Bootcamp
- IEEE Micromouse Robotics

## Experience

**Facebook – Software Engineer Intern, Instagram Team** (Menlo Park, CA)                    Summer 2017
- Incoming Software Engineer Intern for Summer 2017. Working Full Stack on Instagram Account Security.

**Boeing – Satellite Payload Systems 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.***

**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.

**Berkeley Hyplerloop (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

**Pet Detective –TreeHacks First Place Winner –  Google App Engine, Flask, Facebook API**        Feb 2017
- **Winner -  TreeHacks, First Place in Category: Best Use of Google App Engine**
- Messenger based chatbot concierge service that uses Computer Vision to locate lost pets and notify owners.

**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), Machine Learning, 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

- US Marine Corps Veteran • San Disk Scholarship • Buick Achievers Scholarship • Edison Scholarship
- Doyle Schlarship • Pepsi Scholarship • Marine Corps Meritorious Mast • Certificate of Commendation