

# SHANE BARRATT

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www.shanebarratt.com ◊  sbarratt

## EDUCATION

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### University of California, Berkeley

Expected May 2017

B.S in Electrical Engineering & Computer Science (Honors Degree Program)

Regent's And Chancellor's Scholar

Major Coursework (GPA 4.0/4.0):

Operating Systems(inp.), Microelectronic Circuits and Devices(inp.), Information Theory (inp.),

Linear Dynamical Systems, Probability and Random Processes, Computer Architecture, Artificial Intelligence,

Machine Learning, Algorithms, Quantum Mechanics, Real Analysis, Digital Signal Processing

## TECHNICAL STRENGTHS

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### Programming Languages Systems

Python, Go, C++, Java, Javascript, HTML/CSS

Linux, Networking, Security, git

### Hands-On

Microcontrollers, Analog Electronics, HAM Radio, TIG Welding

### App Development

Built Clear the Beavers (on the App Store)

## WORK EXPERIENCE

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### Undergraduate Researcher

August 2016 - Present

*Berkeley Wireless Foundations Center*

- Investigating collaborative Artificial Intelligence techniques
- Competing in the DARPA Spectrum Collaboration Challenge

### Catamaran Ventures

May 2016 - August 2016

*Platform Engineering Intern*

- Worked with a leading private investment firm on studying and building advanced products in big data, analytics and machine learning
- Improved core infrastructure and training materials

### UC Berkeley

January 2016 - May 2016

*EE16B Undergraduate GSI*

- Lead two 40+ student discussion sections and held office hours
- Developed the material and goals of the course, which was in its second offering

### Google (Skybox Imaging)

June 2015 - August 2015

*Hardware Engineering Intern*

- Designed and implemented a next-gen spacecraft optical image stabilization system
- Developed a state-space structural dynamics model, performed proton radiation testing, characterized electronics and wrote embedded software

### UC Berkeley Robot Learning Lab

June 2014 - October 2014

*Undergraduate Researcher*

- Worked on improving a point cloud registration algorithm, and helped publish a paper to ICRA 2015
- Gained experience in software development, linear algebra, optimization, numpy and OpenRAVE
- Co-authored paper that is in the proceedings of the IEEE International Conference on Robotics and Automation (ICRA), 2015

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