**Chris Powers**

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2455 Hilgard Ave.

Berkeley, CA 94709

**EDUCATION**

Aug. 2015-May 2019

**University of California, Berkeley**

EECS undergraduate (GPA: 3.925)

Courses (Completed and *In Progress)*:

Data Structures

*Discrete Math and Probability Theory*

Designing Information Devices & Systems II Physics for Scientists and Engineers

Mutlivariable Calculus

The Structure & Interpretation of Computer Programs

*Machine Structures*

Designing Information Devices & Systems I *Microelectronic Devices and Circuits*

Linear Algebra and Differential Equations

**EXPERIENCE**

**Student Researcher**

Worked in UC Berkeley Automation Lab under Professor Ken Goldberg

Developed perception library for robotic learning systems

* Developed binary masks that adapt to background
* Synthetically multiplied training data
* Created a script that detects any objects singulated a certain distance from a pile in under 0.5 seconds
* Created collision checker for robotic gripper
* Worked with Kinect depth images

Experience working in large collaborative programming environment

* Improved coding style, workflow, organization, and version control usage

Trained robot through demonstrations to pick up simple objects (e.g. silverware)

**Designing Information Devices & Systems II**

Built mobile robot and programmed it to recognize and respond to voice commands

**VEX/FRC Robotics**

Mechanic, programmer then VEX sub-team leader for Team 254

Created autonomous programs using sensory feedback and PID control

Won VEX Excellence Award (2013), FRC World Championship (2014)

June. 2016-Present

**SKILLS**

**Programming**: Java, Python, C, Swift, Objective C, Scheme, Robot C, Javascript

**Other Software**: Adobe Photoshop, Illustrator, & Aftereffects, Tensorflow

**Interests:** Learning for robotics, chess, mobile apps, Japanese language, gaming

Spring 2016

Sep. 2011-May 2015