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Chris Powers

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EDUCATION

University of California, Berkeley

Aug. 2015-May 2019

EECS undergraduate (GPA: 3.925)

Courses (Completed and *In Progress*):

The Structure & Interpretation of Computer Programs

Machine Structures

Designing Information Devices & Systems I

Microelectronic Devices and Circuits

Linear Algebra and Differential Equations

Data Structures

Discrete Math and Probability Theory

Designing Information Devices & Systems II

Physics for Scientists and Engineers

Multivariable Calculus

EXPERIENCE

Student Researcher

June. 2016-Present

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

Spring 2016

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

VEX/FRC Robotics

Sep. 2011-May 2015

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)

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