Evan Finnigan

I am interested in building flexible, capable robots

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Evan-Finnigan on Github

Education

University of California, Berkeley — *5th Year M.S. EECS*

September 2018 - May 2019

- Advised by Prof. Ruzena Bajcsy
- GPA 4.0 of 4.0

University of California, Berkeley— *B.S. EECS*

September 2016 - May 2018

- GPA 3.56 of 4.0

De Anza College

- September 2014 - July 2016
- GPA 3.93 of 4.0

Research Experience

Hart Lab, UCB— *Master's Student Researcher*

June 2018 - May 2019

- Developed a webcam based eye tracking system for an assistive device
- Extracts facial features to infer pupil location and uses facial geometry as well as pupil location to infer which direction the user is looking
- Implemented with C++, connects from computer with webcam to the assistive device via USB
- Report available online at:
  https://www2.eecs.berkeley.edu/Pubs/TechRpts/2019/EECS-2019-79.html

Hart Lab, UCB —Undergraduate Student Researcher

June 2017 - January 2018

- Wrote a control system for an assistive device in C
- Created custom blocks in Simulink to allow easy sending of setpoints to assistive device
- Built prototypes of an assistive device using 3d printing

Experience

Course Staff for Intro to Electrical Engineering, UCB —Lab Assistant and Tutor

January 2016 - August 2017

- Gave mini lectures at review sessions
- Explained circuits used in labs and helped students debug their circuits

Projects

Deep Q Learning from Multiple Experts

- Built an agent that uses Imitation Learning in addition to Reinforcement Learning to speed up training on Atari games
- Built as an extension with multiple experts to the Deep Q Learning from Demonstrations algorithm
- Implemented using Tensorflow

Swarm Robots

- I implemented an app that facilitated communication between swarm robots equipped with Android phones
- Completed as part of a competition run by NASA

Coursework

Deep Reinforcement Learning

Computer Vision

Linear Algebra

Real Analysis

Skills

Experienced:
C, Python

Proficient:
C++, Java, Git

Some Experience:
Matlab, SQLlite,