Claire Gantan

clhg365@gmail.com

SKILLS

more than 5000 lines of code: Java · LabVIEW

more than 1000 lines of code: Arduino · HTML · Python

familiar: OpenCV · PHP

RESEARCH

USC Bridge Undergraduate Science Program – *Research Intern*

Alfred Mann Institute of Biomedical Engineering, Fraser Lab

Summers 2016, 2017, 2018

- Open to USC students and few select high school students, worked on improving the Photon Microscope via Confocal Line Detection software in LabVIEW
- Prototyped, programmed and tested an Optical Coherence Tomography (OCT) device
- Initiated the implementation of GitHub version control to the PS-OCT project
- Aided in 3D printing for rapid prototyping

EXPERIENCE

September 2018-August 2019

Internship, *Crescenta Valley Water District*

- streamline the process of accessing data for the water district
- created a database of information that is accessible to multiple workers at a time

January 2017-June 2018

Vision Programming, *589 Robotics*

- Implemented GRIP and OpenCV for 1st prototype to create vision targeting on the robot using reflective tape and LEDs
- Implemented OpenCV and Raspberry Pi on 2nd prototype to create vision targeting using reflective tape or different colored boxes.

EDUCATION

August 2019 – present
Berkeley, CA
UC Berkeley

August 2015-June 2019
La Crescenta, CA
Crescenta Valley High School

LINKS

GitHub: //cGantan

COURSEWORK

High School

Linear Algebra

Multivariable and Vector Calculus (Glendale Community College)

AP Computer Science A

AP Calculus AB and BC

AP Physics 1, 2, and C