

CALVIN HUANG

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Northwood III Apt. 31, 1634 Murfin Rd. 48109

EDUCATION

University of Michigan

BSE Computer Science, expected April 2022

GPA: 3.867

Course Highlights: Data Structures and Algorithms

Ann Arbor, MI

September 2018 – Present

Jiao Tong University

Study Abroad at Joint Institute with the University of Michigan

Shanghai, China

June 2019 – August 2019

PROJECT EXPERIENCE

Do-It-Yourself Geiger Meter Research Project – Dr. Kimberlee Kearfott

Ann Arbor, MI

Mobile Application Software Engineer

September 2019 – Present

- Assembled iOS and Android apps and heat map interface for tracking radiation data collected from experimental student-built Geiger Meters for use in high school courses

Independent Robotic Arm

Cincinnati, OH

Head Engineer

March 2019 – Present

- Designed automated 6-axis, fully 3-D printed robotic arm to perform sorting tasks in a small workspace
- Created Windows desktop application to interface with microcontrollers to store data used to automate the robotic arm

Remote Operated Vehicle

Ann Arbor, MI

Circuit and Controls Engineer

January 2019 – May 2019

- Prototyped and built underwater ROV design for offshore pipeline inspection that scored second highest out of a dozen teams in a simulated inspection
- Optimized custom software to simplify user interface and increase maneuverability by automatically synchronizing thrusters

MRover Project Team

Ann Arbor, MI

Computer Vision and Robotic Arm Engineer

September 2018 – Present

- Implemented AR tag detection algorithm using OpenCV for find-and-identify task in the University Rover Challenge
- Presented professional design reviews to interface with electrical sub-team to equip robot finger tools for precise tasks

EXTRACURRICULARS

Detroit Education Society

Ann Arbor, MI

Curriculum Designer/Mentor

April 2019 – Present

- Organized custom curriculum with team of four students for SAT/ACT tutoring program for students in Detroit
- Tutored class of fifteen high school students in math and science over an online classroom in preparation for standardized tests

3D Printing Club

Ann Arbor, MI

Maintenance Assistant

September 2019 – Present

- Assembled and maintained 3-D printers for collegewide use by club members
- Implemented online server with maintenance team to expedite the model uploading process for members

SKILLS

Programming/Markup: Java, C++, MATLAB, Python, Swift, LaTeX, Markdown

Computer-Aided Design/3D Printing: SOLIDWORKS, Siemens NX, AutoCad, Ultimaker Cura

Machine Shop: Mill, Lathe, Gas Mask

HONORS AND AWARDS

University of Michigan Dean's Honor Roll

December 2018 – Present

Tau Beta Pi Michigan Gamma Chapter Electee

September 2019 – Present