Yuet Ming Leung

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Education

Cornell University - College of Arts and Sciences

Aug 2018 — May 2022 (Expected)

- B.A. in Computer Science — 4.0 GPA
- Dean's List for College of Arts and Science (all semesters)

Experience

Cornell University Autonomous Underwater Vehicle

Software Co-Lead
Aug 2019 — Current

Software Member
Oct 2018 — Aug 2019

- Created vision modules for the underwater vehicle to identify mission elements using computer vision algorithms
- Developed a new automated testing software for vision modules
- Programmed autonomous missions for the vehicle using a custom mission system
- Finalist in Association of Unmanned Vehicle System International's 2019 RoboSub competition, where the vehicles autonomously completed gate navigation, pinger tracking and buoy ramming tasks

Diocesan Boys' School Design and Technology Engineering Team

Programming Lead
Dec 2016 — May 2018

- Lead the software component of the engineering projects on a team of 10 students
- Designed an automated liquid cooling system for a self-cooling smart glass that can be controlled with an android application
- Placed first in Hong Kong University of Science and Technology's Paper Tower Challenge

Cornell Computing and Information Science: Introduction to Computing Using Python

Consultant
August 2019 — Current

- Teach two labs per week and hold consultant office hours
- Grade assignments, preliminary exams and finals

Projects

Cornell Creatives

Backend Application
Sep 2018 — Dec 2018

- Designed an application to connect freelancers with potential customers
- Wrote a RESTful API for an iOS application using flask
- Setup a virtual environment for the application and dockerized it

An Analysis of the Trajectory of a Bouncing ball on a Sinusoidally Vibrating Table

Research Paper
Sep 2017 — Mar 2018

- Modelled the trajectory of a bouncing ball on a sinusoidally vibrating table with a computer simulation
- Analyzed how small changes in the initial height of the ball affected its trajectory

Programming Languages: python, java, C#

Languages: Mandarin, Cantonese, English

Software: OpenCV, git, latex, bash, unix, vim, docker, flask