

EXPERIENCE

SIGHT AT HKUST STUDENT, SIGHT LEADER
2024/1/29 - NOW

Semester-long project consulting and deploying improvements for a Sri Lankan upcycling enterprise with bincoin concept, identified pain points. Improved their ERP workflow efficiency through digital transformation with Airtable database system, designed specific behavioral metrics (responsible consumer index) and loyalty points IBP, to allow better analysis and making data informed business decisions.

SIGHT leader, guide future students in the course, improve course teaching.

Internship at Baguio Green Tech Limited 2024/6/18 – 2024/8/31

Data Engineering internship in developing data pipelines.

- Google form report system on IOT devices maintenance with PowerBI querying and visualization with Excel, google app script, PowerBI M language.
- Flask Web app for Raw data parsing on IOT devices creating pivot tables and matplotlib visualizations
- NodeJS Whatsapp web api implementation for scheduling and reporting cases, including real time chat logging and analysis with pivot table.
- AI Trash classification to recognize fraud in recycling from real time camera images by segmentation and detection with YOLO, UNet, Pytorch

Undergraduate Researcher on Embodied AI Robotic Arm and Vision-based Foundation models for robot manipulation
2024/12-NOW

Work closely with a Phd student under the supervision of Prof. Qiming Shao. Deploying and testing cutting-edge World Foundation models on object detection, segmentation, pose estimation algorithms on a robotic arm and conduct simulations and synthetic data generation for task-reward-based reinforcement learning.

HKUST ECE MAKERSPACE SOCIETY FOUNDING CORE MEMBER
DIRECTOR OF INTERNAL DEVELOPMENT
2024-NOW

One of four people to initiating ECE Makerspace as a society under the Electrical and Computer Engineering dept. Working on administration, engineering maintenance, digital operations, marketing and recruitment. Facilitating resources and members to use for project innovation.

The Institution of Engineering and Technology (IET) Student Section organizing committee member
2024/1/29 – NOW

A part of a team organizing and promoting sight visits and Engineering mentorship program. Acted as MC for the Youth mentoring programme 2024 hosted by the IETSS.

Internship at Laboratory for Space Research (LSR)
Laboratory for Space Research University of Hong Kong (LSR)
2021/07/26 - 2021/08/06

Two-week internship at LSR HKU Cyberport. Worked on a small research project on the size distribution of bipolar and round "Planetary Nebulae" from the HASH PN database.

CATHAY HACKATHON 2024 SEMI-FINAL
2024/9 - 2024/11

Product master role in a 4 man team, involved creating a simple OCR system and designing a data pipeline and physical container with CAD for more efficient and digitalized warehouse operations. Pitching in Cathay City

MATHEMATICS EXTENDED ESSAY, EVALUATING THE USE OF SMALL-ANGLE APPROXIMATIONS THROUGH THE APPLICATIONS OF THE TAUTOCHROME PROBLEM
2022 - 2023

4000 word academic research project. Obtained an A

PART-TIME STARBUCKS BARISTA, MARKETPLACE TRAINEE
2023/7/26 - 2023/10/1

Two months part-time in Elements Starbucks Kowloon station and One-month in Marketplace store trainee. Operational and organizational understanding, working under intense environment and workload, as well as collaborating and communicating effectively and efficiently.

ASTRONOMY CLUB COMMITTEE, CHAIRPERSON
Po Leung Kuk Ngan Po Ling College 2020-2022

Set up the astronomy club for two consecutive years, recruited committee members and club members. Planned and promoted star gazing activities and day-time solar observation events.

EDUCATION

BACHELORS IN ENGINEERING+EXTENDED MAJOR AI
The Hong Kong University of Science and Technology
2023-now

- Industrial Engineering and Decision Analytics + AI
- Engineering E2i Peer Mentor

INTERNATIONAL BACCALAUREATE (IB DIPLOMA)
Po Leung Kuk Ngan Po Ling College (2017-2023)
2021-2023

- Math AA, Physics, Economics Higher Level
- Chemistry, English A, Chinese A Standard Level
- A in Math Research-based Extended Essay

ADDITIONAL SKILLS

- Native in English, Mandarin, and Cantonese
- Writing and typing in English and Chinese
- Willing and Quick to learn
- Individual/group project management skills, Loop, Discord, Teams

- Figma, Fusion 360, Canva Adobe Photoshop, Lightroom, INDESIGN
- Adept use of Google and Microsoft productivity applications
- Understanding of Technology infrastructure and capabilities
- Team player, collaborator, communicator, leader
- Familiar with server and computer systems both local and cloud such as enterprise High performance computing job scheduling and GPU request