

RYAN KA LONG ANG

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EDUCATION

2020-2024 MEng Molecular Bioengineering Imperial College London

- On Track to achieve a 1st class grade
- Strong analytical and written communication skills from completing lab experiments and reports
- Completed Imperial Horizons courses for Japanese Level 1 and Level 2
- Completing a Managerial Economics module as part of the I-Explore scheme in Year 3
- Displayed strong problem-solving and analytical skills in Programming 2 assignments (82% achieved)

KEY PROJECTS

2022-2021 Design and Professional Practice 2- Group Project

- Developed a Leishmaniasis Lateral Flow Test utilizing a microneedle array to sample biomarkers
- Strong collaborative skills by completing lab work, research and reports with other group members
- Developed strong communication skills by reporting on the product's design, specifications and experimental data
- Awarded the Molecular Bioengineering Prize for Best Design Group Project (77.55% Achieved)

2021 Medical Science 2 - Individual Arduino project

- Designed and programmed an interactive distance detection device using an Arduino Uno and modules
- Displayed strong self-motivation by learning C to implement a moving average filter to the device
- Demonstrated strong verbal communication skills by presenting the project to 4 examiners

2007-2020 Discovery College, Hong Kong

- IB Diploma: 39/45

WORK AND VOLUNTARY EXPERIENCE

2022 Summer Internship at ACCESS (AI Chip Center for Emerging Smart Systems), Hong Kong

- Investigated and developed edge AI devices through the deployment of Quantised Neural Networks
- Trained and deployed a speech-recognition CNN to Microcontrollers (**TensorFlow, Keras, Python, Edge Impulse**)
- Enabled externally deployed ML models to wirelessly control home appliances (**Python, Bluetooth, UDP protocol**)
- Displayed strong communication skills by detailing the prototyping process with a written report and presentation

2018-2020 Volunteer tutor at St. Barnabas Society and Home, Hong Kong

- Strong time management, enthusiasm and accountability from tutoring primary school students weekly
- Displayed attention to detail by tailoring teaching plans based on the strengths and weaknesses of each student
- Displayed strong communication and analytical skills by assisting students with homework problems

2018 Intern/Job shadowing at CEVT, Gothenburg, Sweden

- Shadowed different departments related to automobile engineering and design
- Examined and amended errors in the company's excel spreadsheets
- Observed how different departments communicate to finalise decisions in meetings

POSITIONS OF RESPONSIBILITY

2018-2019 Community and engagement Captain at Discovery College, Hong Kong

- Met weekly with other captains and the coordinator to review the school's service program
- Demonstrated proactiveness and commitment by suggesting changes to the program based on student feedback
- Displayed strong interpersonal skills by participating in and promoting service initiatives to students

2018-2019 House Captain at Discovery College, Hong Kong

- Liaised with students, other house captains and coordinators to organize and coordinate events
- Displayed strong time management and interpersonal skills by promoting and running house-wide events
- Strong creativity and judgement from guiding my house band to win the battle of the bands whilst playing guitar

TECHNICAL SKILLS & INTERESTS

- Highly proficient with Python (With experience in OOP), MATLAB, Arduino C
- Proficient with SolidWorks, TensorFlow/Keras, Java (with Swing), GitHub and Microsoft Office
- Cantonese (Native), English (Native), Mandarin (Fluent) and Japanese (Basic)

REFERENCES AVAILABLE ON REQUEST