

Kin Kwan Leung

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A future engineer who despite having had high grades in computer science, chose to pursue something new and unfamiliar. A self-motivated team player who can also work individually, evidenced by the projects shown, and has good verbal and written communication skills due to the years of being a mentor. Currently looking for graduate schemes and full-time employment.

EDUCATION AND QUALIFICATIONS

The University of Manchester

Sep 2018 - Jun 2022

Mechanical Engineering (MEng)

- **Overall grade: First-Class Honours**
- **Modules:** Fluid Mechanics 1 and 2; Dynamics; Design 1, 2 and 3; Project Management; Modelling & Simulation 2 and 3; Mechanical Engineering Systems; Structures 1, 2 and 3; Tools for Engineers; Electrical Energy Supply and Circuits; Manufacturing Engineering 1, 2 and 3; Manufacturing Systems; Mathematics 1M1, 1M2 and 2M1; Mechanics; Thermodynamics; Materials 1 and 2; Numerical Methods & Computing; Applied Thermodynamics; Data Acquisition & Experimental Methods; Control Engineering; Heat Transfer; Advanced Heat Transfer; Vibrations & Aeroelasticity; Operations Management; Individual Project; Renewable Energy Systems; Legal Issues; Workshop Practice; Composites and Polymers; Robotics, Metrology and Bioengineering; 3D Product Modelling and Additive Manufacturing; Mechanical Group Design Project
- **Achieved Stellify Award:** Based on completing ethical grand challenges set by the university, taking up two leadership roles and completing 25 hours of community volunteering

Sep 2017 - Jun 2018

Computer Science (MEng) with Industrial Experience

- **Overall grade: First-Class Honours (1st Year)**
- **Modules:** Fundamentals of Artificial Intelligence, Computer Architecture, Computer Engineering, Computation, Distributed Systems, Mathematical Techniques for Computer Science, Object Oriented Programming with Java 1 and 2
- **Achieved Kilburn Entry Scholarship award:** Based on grades achieved from A Levels (A*AA including A* in Mathematics)

Ysgol David Hughes

Sep 2015 - Jun 2017

GCE A Level (WJEC)

- **Subjects (Grade):** A2 Chemistry (A), A2 Mathematics (A*), A2 Physics (A), Welsh Baccalaureate Advanced (Pass), AS Further Mathematics (A)
- **Achieved 50% BTEC L3 National Award in Engineering** (Distinction)

WORK EXPERIENCE

Jun 2022

Technology Intern - Bright Network

Programmed a path-finding program using recursion and object oriented programming in Java.

Jun 2021 - Jul 2021

Technology Intern - Bright Network

Using logical thinking and creativity, systematically worked on and completed a programming work sample given by Google in a three day internship experience.

Oct 2019

MANSEDS Student Ambassador - The University of Manchester

Represented and promoted the MANSEDS society at the University of Manchester open day by preparing the stall and showcasing the projects that the society had completed and will accomplish in the future.

Jul 2016

Project Worker - Bangor University

Constructed and programmed a robot car chassis using an Arduino and photo-resistors to search for and chase after light.

Jul 2014

Assistant Teacher - Ysgol Y Borth

Communicated with pupils and helped teachers prepare for classes. Also coordinated with other teachers to provide a safe environment for students during break/lunch time.

POSITIONS OF RESPONSIBILITY AND VOLUNTARY WORK

Oct 2021 - Mar 2022

Volunteer Mentor - ReachOut

Jun 2021 - Jun 2022

Treasurer - Manchester University Canoe Club (MUCC)

Jun 2020 - May 2021

Social Secretary - Manchester University Canoe Club (MUCC)

- **Obtained Club Committee Member of the Year Award**

Sep 2019 - May 2021

PASS Leader - The University of Manchester

Jun 2019 - May 2020

Outreach Officer - MANSEDS society

Oct 2018 - Apr 2019

Volunteer Mentor - ReachOut

- **Obtained ReachOut Bronze Award:** For volunteering over 25 hours

Oct 2016 - Jun 2017

Deputy Head Prefect and Mentor - Ysgol David Hughes

Nov 2015 - Jun 2017

Founder/Leader of Mindfulness Club - Ysgol David Hughes

Oct 2015 - Jun 2017

Volunteer - Mencap Gateway Club

Sep 2015 - Jun 2017

Class Representative - Ysgol David Hughes

Sep 2015 - Jul 2016

School Council Member - Ysgol David Hughes

PROJECTS - REPORTS ACCESSIBLE ON WEBSITE

Solar Panel Cleaner

Mechanical Group Design Project. In a group of 7, designed and developed a device that cleans offshore solar panels. The project consisted of four subsections: chassis, lower arm, upper arm and the T-structure.

Contribution: Researched and implemented the electronics on the device. Assembled the device and performed testing on all the subsections.

Individual Project

Third Year Individual Project. Title: Programming for Engineers: Removing Barriers and Improving Outcomes.

Design 3

Mechanical Engineering Design 3 Team Project. In a team of 6, the project was about designing a test rig for measuring the effectiveness of medical face masks. The three components of the test rig consisted of the mannequin head, the Bacterial Filtration Efficiency (BFE) testing apparatus, and the Air Resistance testing apparatus.

Contribution: Designed the Air Resistance testing apparatus and produced Solidworks files for the apparatus.

Design 2

Mechanical Engineering Design 2 Team Project. In a team of 5, designed a 3-axes positioning system for laser surface hardening. Calculations were performed to ensure that pre-manufactured parts were suitable for each stage of the positioning system.

Contribution: Conducted calculations for each of the stages. Created Solidworks files for one of the 3 stages of the system.

DMT

Mechanical Engineering Design 1 Team Project. In a team of 4, constructed a car from a list of parts that were "purchased". The car was propelled using a weight attached to a gearbox, which was then attached to the rear axle.

Contribution: Created the SolidWorks files. Also created a Gantt chart and FMEA to assess the hazards and risks.

LanguageWiki

Computer Science First Year Team Project. In a group of 7, developed a website where speakers could add phrases of the language and view the addition of phrases by other users. The thought behind the project was the ability for others to learn languages from native speakers.

Contribution: Collaborated on the front-end using HTML and CSS.

Individual Project

Welsh Baccalaureate Individual Project. Title: When will Humanity be able to Colonise Extra-terrestrial Bodies within the Solar System?

PERSONAL SKILLS

Driving

Full clean UK driving licence

Languages

Cantonese

Native Speaker

English

Native Speaker

Welsh

WJEC GCSE Second Language Welsh Qualification (Grade A*)

Programming & ICT

Engineering

SolidWorks

Programming

Java, MATLAB, Python and G-Code

Others

HTML, CSS and GitHub

INTERESTS AND ACTIVITIES

Sports

Badminton, running, kayaking, salsa and bachata dancing

REFERENCES

References available on request