

Kin Kwan Leung

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A student at the University of Manchester who despite having had high grades in computer science, chose to pursue mechanical engineering. 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. Has a strong background in a variety of programming languages, including Java, Python and G-Code. Currently looking for graduate schemes and full-time employment.

EDUCATION AND QUALIFICATIONS

The University of Manchester

Sep 2018 - 2022 Mechanical Engineering (MEng)

- **Overall grade: First-Class Honours (predicted)**
- **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; Mathematics 1M1, 1M2 and 2M1; Mechanics; Thermodynamics; Materials 1 and 2; Numerical Methods & Computing; Applied Thermodynamics; Data Acquisition & Experimental Methods; Control Engineering; Heat Transfer; Vibrations & Aeroelasticity; Operations Management; Individual Project; Renewable Energy Systems

Sep 2017 - 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, OOP with Java
- **Achieved Kilburn Entry Scholarship award:** Based on grades achieved from A Levels (A*AA including A* in Mathematics)

Ysgol David Hughes

Sep 2015 - 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

June - July 2021 Technology Intern - Bright Network

Using logical thinking and creativity, systematically worked on and completed a programming work sample given by Google.

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.

July 2016

Project Worker - Bangor University

Worked on an independent project based on personal preference a week to learn how to use Arduino during A-Levels. Constructed and programmed a robot car chassis using an Arduino and photo-resistors to search for and chase after light.

July 2014

Assistant Teacher - Ysgol Y Borth

Worked as an assistant teacher at a primary school level, communicating with pupils and helping teachers prepare for classes as well as coordinating with other teachers to provide a safe environment for students during break/lunch time.

POSITIONS OF RESPONSIBILITY AND VOLUNTARY WORK

Oct 2021 - Present

Volunteer Mentor - ReachOut

Jun 2021 - Present

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 a total of 25 hours

2015 - 2017

Volunteer - Mencap Gateway Club

Ysgol David Hughes

2016 - 2017

Deputy Head Prefect, Class Representative and Mentor

2015 - 2017

Founder and Leader of the Mindfulness Club

2015 - 2016

School Council Member and Class Representative

PROJECTS

Individual Project

Third Year Individual Project. Title: Programming for Engineers: Removing Barriers and Improving Outcomes. The report can be accessed on the website if interested.

Design 3

Mechanical Engineering Design 3 Team Project. Working 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. The report can be accessed on the website if interested.

Contribution: Came up with designs of the Air Resistance testing apparatus and produced Solidworks files for the apparatus.

Design 2

Mechanical Engineering Design 2 Team Project. Working in a team of 5, the project was about designing a 3-axes positioning system for laser surface hardening. Calculations were made to ensure that pre-manufactured parts were suitable for each stage of the positioning system.

Contribution: 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. Working in a team of four, 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. The report can be accessed on the website if interested.

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. Working in a group of 7, this project was a website where people could add phrases of their native 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: Worked 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? The report can be accessed on the website if interested.

PERSONAL SKILLS

Driving

Full clean UK driving licence

Languages

Cantonese Native Speaker

English WJEC GCSE English Language Qualification (Grade B)

Welsh WJEC GCSE Second Language Welsh Qualification (Grade A*)

Programming & ICT

Engineering SolidWorks

Languages Arduino (C/C++), Java, MATLAB, Python and G-Code

Others HTML, CSS, Linux (Unix), LaTeX, GitHub

INTERESTS AND ACTIVITIES

Sports

Badminton, running, kayaking and bachata dancing

REFERENCES

References available on request