● Mark Cai Yee Lee ●

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EDUCATION 🏛

University of Wollongong   **Wollongong, NSW**
Bachelor's of Engineering (Computer Engineering)(Honours)(Dean's Scholar)
○ Expected Graduation: June 2022

Sunway University   **Subang Jaya, Malaysia**
Western Australian Certificate of Education (WACE)
○ ATAR: 94.65

Catholic High School   **Petaling Jaya, Malaysia**
Malaysian Certificate of Education
○ Result: 3A+ 5A 1B 1C

EXPERIENCE 🏢

University of Wollongong   **Sydney, Australia**
Tutorial Demonstrator   *March 2021 – June 2021*
○ Assisting and conducting tutorials for a first year engineering subject
○ Helping first year students plan projects

Pusat Tuisyen Seri Cerdik Intelek   **Bukit Jalil, Malaysia**
Private Tutor   *December 2016 – March 2017*
○ Tutoring primary school students English and Mathematics

ACHIEVEMENTS 🏆

○ Dean's Scholar
○ Dean's Merit List 2020

PROJECTS 🔧

Smart Energy Sharing Wireless Local Area Networks
○ Final Year Thesis – ECTE457

Real-time Vehicle Counting (Ongoing)
○ UOW Summer Scholarship Program
○ Object detection and object tracking using OpenCV

Truck Hazard Detection System
○ Engineering Design and Management 3 – ECTE350
○ Writing user interface for Main System Hub using QT Creator and GStreamer
○ Interfacing wireless modules with the main unit using RTSP streams and SSH commands
○ Orgainising group work, meetings and overall project coordination

Indoor Localisation using Bluetooth Low Energy
○ Scholar's Project – ECTE355

Custom Kernel for Samsung Galaxy Tab 2017 (SM-T385)
○ Removing Samsung KNOX to enable root access and installation of Magisk
○ Experimenting with Device Tree, Vendor Specific Blobs and building TWRP Recovery

Markdown Tools Plugin - Neovim

- Writing custom functions using Lua to automate repetitive tasks when writing LaTeX and Markdown

Telegram Bot
- Self-hosted Telegram bot to send news and currently airing anime on a daily basis

LineageOS and TWRP for OnePlus 5T
- Experimenting with building AOSP
- Writing Device Tree and linking Device Specific Vendors to build LineageOS and TWRP
- Using Repo to sync resources to build custom rom

Dementia Patient Activity Tracker
- Engineering Design and Management 2 – ECTE250

Skills and Software ☰

- **Coursework:** Circuit and Systems, Computer Systems, Wireless Networks, Internet of Things, Digital Signal Processing, Electronics, Control Theory, Communication Systems, Programming Autonomous Systems, Embedded Systems
- **Software and Tools:** AVR Studio, Simulide, RobotOS, Microsoft Office, Vim, QT Creator, AutoCAD, Ubuntu, Arch Linux, CMake
- **Programming Languages:** Python, C, C++, MATLAB, Java, Bash, Lua, LaTeX, Assembly
- **Languages:** English, Mandarin, Cantonese, Hokkien, Bahasa Malaysia
- **General Skills:** Cooperative, Teamwork, Enthusiastic, Hardworking, Communicative, Technical and Practical

EXTRACURRICULAR ACTIVITIES 📈

President   Petaling Jaya, Malaysia
Cooperation Club, Catholic High School   *Jan 2016 – Dec 2016*
- Managing club daily affairs and organising quarterly activities
- Converting club member database paperwork to digital systems

Webmaster   Petaling Jaya, Malaysia
Cooperation Club, Catholic High School   *Jan 2015 – Dec 2015*
- Managing club website, Facebook group and online presence

Member   Petaling Jaya, Malaysia
Archery Club, Catholic High School   *Jan 2016 – Dec 2016*

Member   Petaling Jaya, Malaysia
Track and Field Club, Catholic High School   *Jan 2012 – Dec 2015*

Member   Petaling Jaya, Malaysia
Chinese Diabolo Club, Catholic High School   *Jan 2012 – Dec 2012*

REFERENCES ✳

Associate Professor Kwan-Wu, Chin   **Associate Professor Le Chung, Tran**
Head of Postgraduate Studies   School Adviser for International Students
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