

CHING HONG QUAN

Seremban
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SUMMARY

Mechatronic Engineering graduate who is passionate about designing and programming robotic arms for automation application. Eager to contribute to team success while continuously developing professional engineering skills.

EDUCATION

September 2021 – July 2025

Bachelor of Engineering with Honours in Mechatronic Engineering, University of Nottingham Malaysia

Year 1

- Software Engineering and Programming
- Information and Systems
- Power and Energy
- Statics and Dynamics
- Engineering Design and Design Project

Year 2

- Electrical Energy Conditioning and Control
- Electronic Processing and Communications
- Modelling: Methods and Tools
- Thermodynamics and Fluid Mechanics

Year 3

- Analogue Electronics and Circuit Design
- Control Systems and System Dynamics
- Electrical Machines, Drive Systems and Applications
- Automotive Technology
- Computer Aided Engineering

Projects

- Line Following Car with Arduino - responsible for designing IR sensor, connecting circuit wiring and programming
- Spring Powered Cart - responsible for machining winding shaft, axle
- Disk Brake - responsible for manufacturing caliper with cutting machine, drilling machine and threading holes
- Robotic Arm and Bytronic ICT3 - responsible for wiring and programming of robotic arm and Bytronic ICT3 system using Arduino Mega
- Drone-based Environmental Monitoring - Designed a two-way system for live drone data monitoring and coordinate control via mobile app.

SOFT SKILLS

- Creative thinking
- Teamwork and collaboration

SOFTWARE SKILLS

- Engineering Simulation Software
- Solidworks
- C Programming
- Microsoft Office Suite

HARDWARE SKILLS

- Machining & Fabrication (Lathe, Milling, Cutting)
- Embedded System Tools (Arduino Mega, Pixhawk Controller)

LANGUAGES

English: C2
Proficient
Chinese (Mandarin): C2
Proficient