

NG KAH LOK

SOFTWARE ENGINEER INTERN (JUNE 2025 - AUGUST 2025)

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PROFILE

Innovative and proactive Electrical & Electronic Engineering student with a strong passion for software development and problem-solving. I am a fast learner with experience in programming and have a keen interest in applying software engineering principles within the EE field. Besides, I am skilled in bridging hardware and software to develop efficient, high-performance solutions and am eager to contribute technical expertise and adaptability to a dynamic engineering team.

PROFESSIONAL EXPERIENCE

Embedded System Engineer Internship, Syswell IoT Sdn Bhd June 2024 - Aug 2024

- Perform reliability test for data storing of speed of 1ms/ message sent in CSV and SQLite
- Work in a team to create an Overall Equipment Effectiveness dashboard and debugging code in Node-Red, JavaScript, MQTT and SQLite
- Writing automation code for industrial IoT using Raspberry Pi and VNC Viewer

PROJECTS

Industrial Waste Management Arduino Robot Jan 2025 - Present

Heriot-Watt University Malaysia

- Coding robot functions in C++: PID Control Line Following, Obstacles Avoidance, Colour Detection for Waste separation and Robotic Arm Control

Fruits Freshness Detection and Sorting using Raspberry Pi June 2024 - Sep 2024

Heriot-Watt University Malaysia

- Integrating Machine Vision with sensors and Raspberry Pi to determine fruits' freshness

EDUCATION

Bachelor of Electrical and Electronic Engineering | CGPA 4.0 Sep 2023 - Present

Heriot-Watt University Malaysia

- Relevant knowledges: C++, Java, Arduino, Object Oriented Programming, SQL
- Object Oriented Programming (Java), Data Structures and Software Design (Graphic User Interface Java), Web Development and Database (HTMLS, CSS, Java Script, SQL)

Complete Software Development Bootcamp | MERN Stack Sep 2024 - Present

Sigma School

- Tech Stack: MongoDB, Express.js, React, Node.js, Data Structure & Algorithms, HTML, CSS

SKILLS

JavaScript	HTML, CSS	Object Oriented Programming	Raspberry Pi
Java	C++	GitHub	MERN Stack

ADDITIONAL INFORMATION

- **Languages:** English, Mandarin, Malay
- **Awards/Activities:** Top Student Award for Foundation in Science April 2022/23 intake, HWUM 10th Anniversary IMPACT Scholarship Recipient, Top Scorer by subject (Physics and Computing)