



Muhammad Safie

Engineer | Programmer | Entrepreneur

Highly motivated and skilled engineer with a passion for electronic projects, Internet of Things (IoT), and Artificial Intelligence (AI). Experienced in designing and developing microcontroller-based systems with sensors, programming in various languages including Python, and implementing IoT and AI solutions. Strong technical knowledge and problem-solving skills, combined with a desire to stay current with the latest advancements in the field.

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EDUCATION

Bachelor Of Electronic Engineering With Honours

Universiti Teknikal Malaysia Melaka (UTeM)

08/2018 - 02/2022

CGPA 3.45

Projects

- Development of *Unmanned Aerial Vehicle (UAV)* Drone for delivery application.
- Performance Analysis of Adaptive Monte Carlo Localization (AMCL) Algorithm using Robot Operating System (ROS)

Diploma in Electronic Engineering (Communication)

Polytechnic Sultan HJ Ahmad Shah (POLISAS)

06/2015 - 12/2017

CGPA 3.74

Projects

- Portable Solar-Powered Generator (Sunovation)

WORK EXPERIENCE

Assistant Engineer(Product)

JVCKENWOOD ELECTRONIC MALAYSIA

10/2022 - Present

Johor Bahru, MY

Electronics Manufacturer

Achievements/Tasks

- Handling new project and study the production line layout for the new product.
- Software testing to ensure the software run smoothly.
- Carry out productivity evaluation for new product to ensure there is no design issue.
- Study production difficulties and do the improvement for high efficiency (line balancing, and design issue).
- Study any reject set claim by OQC (Outgoing quality control) and do study report.
- Study on defective part which cause high reject at production.
- Provide training on block and schematic diagram, alignment manual and process to production technicians and new member.
- Follow up during production run from PP (Pre-Preparation) to 1st MP (Mass Production) stage and write the report.

Practical Training (R&D Engineer)

IIOTSME Sdn. Bhd.

07/2021 - 09/2021

Melaka, MY

Achievements/Tasks.

- Interfacing LoRa module with microcontroller.
- PCB design, Circuit design, 3D design.
- Soldering SMD and through hole component.
- Study and research improvements of a project.
- Developed a project using LoRa module with IoT dashboard - IoT Green Tech Observer (iGTO).

SKILLS

Technical knowledge

Design skills

Adaptability

Debugging and problem-solving skills

Attention to detail

Project management skills

Continuous learning

PERSONAL PROJECTS

SiswaSAT2020 Competition (2020)

- Role - Mission Manager, Programmer.
- In charged with interfacing all the sensors and component with Arduino Uno R3 master and store the data in 2nd Arduino Uno R3 slave in SD card and also send the data through NRF24L01 wirelessly to the Telemetry Viewer where the data is displayed in Quaternion model.
- Won 3rd place position.

Self research project

- Face detection and recognition using Python (TensorFlow, Opencv)
- STM32 nucleo board with IoT dashboard (Cayenne MQTT, Thingspeak)
- Smart Egg incubator with IoT dashboard (Blynk)
- Website Design (Entry Level, www.iiotsme.com.my)
- App Design (Entry Level, Android Studio)

CERTIFICATES

IoT Fundamental: Connecting Things(2021)

Cisco Networking Academy

- Understanding the impact of IoT technology on businesses and society.
- Implementing practical skills in prototyping IoT solutions using sensors, actuators, micro-controllers, and platforms such as Arduino, Python, Cisco PL-App, and Raspberry Pi.
- Recognizing the significance of network and fog computing in the development of IoT solutions.
- Exploring the potential of IoT technology in digitizing business processes and addressing societal challenges.
- Applying a systematic approach to designing a business model for a given business or social endeavour using the Business Model Canvas.

INTERESTS

Electronic Project

AI

C++

Python

VB.net

Java

Arduino

ESP32

Raspberry Pi

STM32

Robotic

IoT

Tech

Autonomous

OpenAI

REFERENCES

AHMAD EFENDI

"SPECIALIST AND SUPERVISOR JVCKENWOOD ELECTRONIC MALAYSIA"

Contact: a.efendi@jkem.jvckenwood.com - 60177185650

IR. TS. DR. SITI AISYAH BINTI ANAS

"PROJECT SUPERVISOR AND SENIOR LECTURER UTeM"

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