Muhammad Irfan Fahmi

Computer Engineering and Embedded Systems
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Professional Summary

Computer Engineering background at UTeM with practical project work in Arduino based weighing load cell signal handling hardware and software integration and connected monitoring. Combines C and C++ and Python experience with hands on technical troubleshooting.

Education

Universiti Teknikal Malaysia Melaka UTeM Bachelor of Computer Engineering with Honours
Oct 2022 to Nov 2026
Graduation scheduled for 2 November 2026.

Politeknik Port Dickson Diploma in Electronic Engineering Computer
Dec 2018 to May 2022

Kolej Komuniti Selandar Certificate in Computer Systems and Networking
Jul 2017 to Feb 2019

Technical Skills

Embedded and sensing C and C++ Arduino HX711 amplifiers load cells signal filtering sensor integration EasyEDA.

Connected applications Python SQL and MySQL telemetry dashboards camera and barcode inputs and application integration.

Technical foundations Hardware diagnostics software deployment Windows troubleshooting VLAN OSPF and Wireshark. Festo industrial automation training.

Selected Projects

IoT Livestock Weight Tracking
Contributed to a team weighing and monitoring platform using Arduino HX711 load cell amplifiers C and C++ signal filtering and telemetry dashboards. Team awarded Third Place at INOTEK 2025 Series 1 15 January 2025 for Development of Livestock Weight Tracking System Based on IoT.

Hybrid Self Checkout
Built a Python pipeline combining YOLOv8 and OpenCV product detection USB barcode input and MySQL product and transaction data. Repository reported evaluation 77.4 percent precision and 72.0 percent recall after 50 epochs. Tested visual verification challenges including occlusion and similar packaging.

SMC Crows and Android Release Engineering
Contributed to the SMC Crows community through Android compatibility investigation release packaging device testing and installation and account recovery guidance. Community distribution recorded 29594 download requests across all release and setup versions as of 22 October 2026. Counts include retries.

Technical Experience

Technical Staff Global Elite Ventures Sdn. Bhd
Sep 2021 to Jul 2022
Technical troubleshooting and hardware and software deployment.

Contract Assistant Engineer ARNN Technologies and Karar Solution
Jun 2020 to Jul 2020
Engineering project support and technical problem solving.

Technician OKCS Seri Kembangan
Jun 2018 to Nov 2018
Diagnostics repairs hardware maintenance and software configuration.

Professional Registrations

BEM Graduate Engineer Computer branch. Approved 15 October 2026. Public directory.

MBOT Graduate Technologist Information and Communication Technology IT. GT26100872. Approved 22 October 2026.

Selected Training

Festo and STDC Industrial Automation with AI in Manufacturing 14 to 16 July 2026.

Cisco Networking Academy Enterprise Networking Security and Automation. Switching Routing and Wireless Essentials 23 February 2026. Course completions.

Languages

Bahasa Malaysia native. English professional working proficiency.