

# MUHAMMAD AZIZUL HAZIM BIN ABD RAZAK

azizul.hazim.00@gmail.com | hazimrzk.github.io | +6011-10522761 | Kajang, Selangor



---

## SUMMARY

**Recent graduate** in Electrical Engineering (**November 2023**) with strong foundation in **electrical engineering** and solid knowledge in **programming**. Actively seeking opportunities, particularly in Trainee or **Graduate Programs** within your organization, also junior positions and **available for hire**. Well-versed in embedded systems as well as **frontend development**. Possesses ability to **adapt swiftly** to new environments and **quick to acquire new skills**. Eager to cultivate positive relationships with new connections and expand my professional network.

---

## EDUCATION

University of Malaya, Kuala Lumpur

2018 - 2023

- Yayasan Khazanah Watan Scholarship Award
- Bachelor's Degree: BSc Electrical Engineering (Hons) – CPGA: 3.33
- Pre-University: Foundation in Physical Sciences – CGPA: 4.00
- Malaysia University English Test (MUET) – Band 5

MRSM Tun Ghafar Baba, Malacca

2016 - 2017

- Sijil Pelajaran Malaysia (SPM) – 7A+, 2A
- Sijil Pelajaran MRSM – 2A+, 3A, 4A-, CGPA: 3.88
- MRSM Tun Ghafar Baba's Best Student in Chemistry & Physics Awards
- Chemistry, Mathematics & Computational National Olympiad – Acquired Distinctions & Honourable Mentions

---

## TECHNICAL SKILLS

Programming Tech Stacks : Flutter, HTML, CSS, JavaScript, SwiftUI, Python, SQL, R, C, C++, ARM Assembly, Verilog

Miscellaneous : Microsoft Office Suite, MATLAB, LTSpice, Microwind, Tableau, Lightroom, MacOS, Linux

Linguistics : Written and Oral Communication in English and Bahasa Malaysia

---

## EXPERIENCE

MHPT Engineering Sdn Bhd, TRX The Exchange Mall Project– QA/QC Assistant Engineer

Jul-Oct 2022

Involved in [The Exchange TRX](#) project under Lendlease Malaysia SDN BHD. Worked as QA/QC Assistant Engineer to oversee the installation process for electrical services in The Exchange Mall. Performed inspection duties such as:

- **Site Acceptance Tests (SATs):** Setup and configured newly-installed machines for test environments before undergoing series of testing with personnel from Suruhanjaya Tenaga. Involved in SATs of Main Switchboards, High-Voltage Switchgears, Cast Resin Transformers and Risers.
- **Insulation & Continuity Tests:** Referred to single-line diagrams to conduct the tests using Kyoritsu 3007A tester to verify all cables and busducts of the Main Switchboards and Risers have no leakage and breakage.
- **Visual Inspections:** Inspected physical appearance for installation jobs to ensure finished work follows the installation standards. Involved in visual inspections of Main Switchboards, Essential Switchboards, Gas-Insulated Switchgears and High-Voltage Switchgears. Supervised all inspection works regarding ELC and ELV services installed at Concourse Floor's common areas and tenant units.
- **Energization of Substations:** Setup and configured substations for energization procedure by TNB authorities. Performed lockout/tagout (LOTO) and coordination works.
- **Paperwork & Documentations:** Prepared inspection forms, checklists, and constructions drawings to initiate over 200 inspection requests in under 3 months. Proposed appropriate solutions for on-site conflicts and imperfect installation works, alongside with corresponding drawing markups. Documented inspection works on Oracle Aconex and the department's excel mastersheet.

---

## CERTIFICATES

---

### Google Data Analytics Professional Certificate

*Learnt data analysis skills with and built a capstone project with R and Tableau.*

- Learnt key analytical skills (data cleaning, analysis, & visualization) and tools (SQL, R, Tableau, Excel).
- Visualized and presented data findings in dashboards, presentations & visualization platforms.

### [Stanford CS193p 2021](#) – Developing Apps for iOS

*Developed an iOS app card complete with gesture supports and app & memory persistence.*

- Developed an iOS app according to Apple's Human Interface Guidelines using SwiftUI and UIKit frameworks to create a card-based game that features gesture supports and fluid animations.

---

## ACADEMIC PROJECTS

---

### [Integrated Design Project](#) – Team Leader, Fullstack Developer

*May-Jul 2022*

*Developed integrated & automated smart parking system that aligned with United Nations' 11<sup>th</sup> Sustainable Development Goal (SDG) that encourages smart and sustainable urban living.*

- **Team & Project Management:** Laid out project workflow, distributed tasks according to team members' capabilities, and proposed debugging & troubleshooting solutions to ensure smooth development process.
- **E-Wallet App Mockup:** Developed the app using Flutter framework with native Firebase integration to perform User Authentication & CRUD Operations, complete with UI that adhere to iOS & Android user guidelines.
- **License Plate Recognition & Parking Vacancy Monitoring Systems:** Developed both systems on a Raspberry Pi 3B+ unit using Python language and OpenCV library, with external peripherals such as Pi camera and IR sensors.
- **Centralizing Integrated Systems:** Centralized the licence plate recognition system, parking vacancy monitoring and e-wallet payment system to a single database via Google Firebase's Realtime Database API.

### [E-Makerthon Competition](#) – Frontend Developer

*Mar 2021*

*Developed an android app that performs automated Covid-19 case tracking to offer useful analytics for the users.*

- **UI Design:** Designed the app interface based on Android's Material Design guidelines. Developed the app using Flutter framework with Google Firebase's Cloud Firestore integration to access the collected data.
- **Data Scraping & Analytics:** Automate data collection from Kementerian Kesihatan Malaysia via Python script and perform analytics such as generating case heatmaps and future predictions based on polynomial regression.

---

## INVOLVEMENTS

---

### Debat Terbuka ASTAR – Yang di-Pertua Dewan

*Aug 2021*

- Managed flows of each debate session by moderating the speakers, and ensure time constraints were adhered to.

### Code.EE Competition – Team Leader, MVP

*Oct 2020*

- Analysed complex questions and wrote corresponding solution codes in C language within allocated time.

### Majlis Anugerah Emas Pusat Asasi Sains UM – Head of Technical Team

*Mar 2019*

- Coordinated tasks between both technical team and PWTC's staff based on the flow of the event.

### UM Symphony Orchestra – Percussionist

*Oct 2018*

- Played percussion instruments i.e., snare drum and tambourine for UM Graduation Ceremony.

---

## REFEREES

---

Mohammad Mahir bin Maznaan – Internship Supervisor, MHPT Engineering Sdn Bhd

+6019-752 2724

Dr. Mohamad Sofian Bin Abu Talip – IDP Advisor, University Malaya

+6019-665 8657