MUHAMMAD AZIZUL HAZIM BIN ABD RAZAK

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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, and **available for immediate 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, Best Student in Chemistry & Physics Awards
- Chemistry & Mathematics National Olympiad – Distinctions & Honourable Mentions

TECHNICAL SKILLS

Prog. Languages   : Dart, HTML, CSS, JavaScript, Python, C, C++, Swift, Java, R, SQL, ARM Assembly, MATLAB

Framework & Libraries : Flutter, React, SwiftUI, Google Firebase, SQLite, OpenCV, NumPy, Flask, GitHub

Tools & Software   : MATLAB, LTSpice, Microwind, Tableau, Microsoft Office Suite, 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 (Internship)   *Jul-Oct 2022*

Involved in The Exchange TRX project under Lendlease Malaysia SDN BHD. Worked as QA/QC Assistant Engineer to overseer 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 & Essential Switchboards, and High-Voltage Switchgears. Supervised all inspection works on ELC and ELV services installed at the building's Concourse Floor.

- **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 an integrated & automated smart parking system that aligned with United Nations' 11th 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 license 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

Internship Advisor: Mohammad Mahir bin Maznaan – Senior Project Coordinator, MHPT Engineering   +6019-752 2724

IDP Advisor   **:** Dr. Mohamad Sofian Bin Abu Talip – Senior Lecturer, University Malaya   +6019-665 8657