


MAISARAH MUSA

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SUMMARY

Able to work independently or within a team, Have high motivation for progress and growing, eager to learn new things. Seeking an opportunity in web-based development, electronics or engineering-related fields that can utilize my qualification and previous knowledge.

PERSONAL DETAILS

Address: Bandar Puncak Alam, 42300, Selangor

License: DA

LANGUAGE PROFICIENCY

Malay (Native)

English (Intermediate)

Japanese (Basic)

SOFTWARE SKILLS

- **Altera Quartus** (Basic)
- **Arduino** (Intermediate)
- **C++ Programming** (Intermediate)
- **COMSOL Multiphysics** (Basic)
- **HTML** (Basic)
- **JavaScript** (Basic)
- **MATLAB** (Basic)
- **Laravel** (Basic)
- **Microsoft Office** (Basic)
- **MPLAB** (Basic)
- **MySQL** (Basic)
- **PHP** (Basic)
- **Proteus** (Intermediate)
- **Python** (Advanced)
- **Solidworks** (Basic)
- **TinkerCAD** (Basic)
- **Verilog HDL** (Basic)

EDUCATIONAL BACKGROUND

Universiti Tun Hussein Onn Malaysia (UTHM), Johor **2021**
Degree in Bachelor of Electronic Engineering with Honours

Kolej Matrikulasi Johor (KMJ), Johor **2017**

WORK EXPERIENCES

Pipeline Network Sdn Bhd, Selangor **Jun 2022 – Present**
Software Developer

- Full-stack developer of Laravel framework
- Converted prototypes built by System Analysts into working products (Back-end and Front-end portion)
- Liaise with developers and analyst to ensure timely completion of project
- Transformed the MAFI (Sistem AgroTrade) and Sistem e-Premis prototype
- Involved in developed web-projects for government agency such as Jabatan Kerja Raya (JKR), eGumis (Jabatan Akauntan Negara Malaysia), Jabatan Pengairan dan Saliran (JPS) and Kementerian Sumber Asli, Alam Sekitar dan Perubahan Iklim (KASA).
- Exposed in Bootstrap, PHP programming, JavaScript, HTML, MYSQL and POSTGRESQL

Mommy Happy Group Sdn Bhd, Selangor **Oct – Nov 2021**
Operator (Packaging) – Part time job

- Assembled the daily orders by packing and labelling the parcels appropriately
- Kept the records of delivering notes, invoices of the packages
- Identified the products defect and examined the quality of books, kid's toys before distribution

Customer Service Representative – Part time job

- Responded promptly to customer enquiries
- Followed up on customer for managing inactive customer's accounts
- Processed orders, requests from customers
- Provided pricing and deliveries information

Noyce IoT Sdn Bhd, Kuala Lumpur **Jul – Oct 2021**
Internship Trainee (Electronic Engineer)

- Involved in the research and development team
- Participated in developing C++ and basic Python programming for robotic cat project
- Participated in content generation procedure including taking down notes, course contents for running projects
- Prepared weekly written and oral presentation progress of robotic project
- Prepared a customized presentation over given topics for robotic projects and 3D printing

PROJECT EXPERIENCES

MAFI - Sistem Agrotrade Jun 2022 – Jul 2022

Web-based Development
Agriculture Prototype, Pipeline Network Sdn Bhd

- Developed a web-based for agriculture website using Laravel framework, bootstrap, PHP, JavaScript, HTML & SQL.

Robotic Cat Jul 2020 – Oct 2021
Internship Project, Noyce IoT Sdn Bhd

- Developed C++ and Python programming to move a robotic cat by utilizing servomotors.
- Tested to control the robotic cat via a webserver with NodeMCU.

Initial Development IoT-based of Heart Segmentation and Diagnosis System 2020 – 2021
Final Year Project, UTHM

- Developed a phonocardiogram acquisition device that be able to segment the signal for diagnosing the heart condition.
- Stored the signals in S3 Storage of Amazon Web Services (AWS) as cloud system.
- Utilized a heart sound sensor with Arduino UNO and analyzed the signal on MATLAB software.

Analysis of Flex Sensor Operation 2021
Using Proteus in the Arthritis Knee Joint Application, UTHM

- Built a simulation for detection the bending of the leg and provided movement for patients in need by creating a sensing machine such as a flex sensor.

Organ-on-a-chip, UTHM 2021

- Designed the microfluidic chip could mimic the human kidney's structural using Solidworks.
- Computed the simulation of microfluidic using COMSOL Multiphysics.

Heartbeat Monitoring System, UTHM 2021

- Developed a heart rate monitoring device using Arduino UNO, pulse sensor and I2C LCD display to detect heart rate activities.

Global Project-based Learning Program Mar 2021
Shibaura Institute of Technology, Japan

- Built a simple circuit to light up the LEDs, move the servomotor, using buzzers connected to Arduino UNO.
- Developed of dice machine using LEDs as indicator to entertain people.
- Developed for detection of drastic motion to alert people on surrounding.

Towards IoT-based Notification System for Agriculture Electric Fence 2019 - 2020
Integrated Design Project, UTHM

- Introduced notification system to notify the batteries level to farmers via Blynk Application.
- Built using Arduino UNO, current sensor and the batteries.

MIPS Processor Implementation 2020
Analysis on FPGA, UTHM

- Designed and compared both performances of 8-bit & 16-bit MIPS processor using Altera Quartus software.

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

APU Certified Associate Web Developer Present
Professional Certification Programme
(Asia Pacific University)

Professional Certification Python Programming 2022
for Artificial Intelligence Engineers
PenjanaKerjaya Programme for Skills Development & Employability

Level 1 & Level 2 Professional Certification 2022
Theory of Inventive Problem-Solving (TRIZ)
Penjana KPT-Pace Programme

International IEEE Conference 2021 2021
SCORED Paper, UTHM
Final Year Project

- Representing for paper conference entitled as Initial Develop IoT-based of Heart Sound Segmentation and Diagnosis System

Dean's List Award, UTHM 2020 – 2021

- Semester 7 & Semester 8

International IEEE Conference 2020 2020
SCORED Paper, UTHM
Integrated Design Project

- Representing for paper conference entitled as Towards IoT-based Notification Systems for Agriculture Electric Fence

Archery Championship in 2017
Sukan Perwira (SUPER), UTHM

- Won first place against other teams from Perwira resident college

Volleyball Championship in KAKOM, KMJ 2016

- Won first place against all matriculation colleges

REFERENCES

Mohamad Noramirul Bin Nordin
Lead Developer
Pipeline Network Sdn. Bhd.
Contact: +6017-2506256

Nor Izatul Hanim Muhammad
Lead System Analyst
Pipeline Network Sdn. Bhd.
Contact: +6011-28134231

ADDITIONAL INFORMATIONS

Final Year Project (Publication)
Initial Development IoT-based of
Heart Sound Segmentation and Diagnosis
System

Integrated Design Project (Publication)
Towards IoT-based Notification
System for Agriculture Electric Fence