ABID SULAIMAN
Software/Firmware Developer

Experienced programmer specializing in IoT devices with energy harvesting systems and communication technologies. Equipped with a proven track record of designing and implementing effective algorithms. Passionate about improving quality of life with scripts and applications.

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WORK EXPERIENCE

Junior Firmware Programmer
Fraunhofer Institute for Integrated Circuits
03/2019 – Present

- Develop and maintain microcontroller firmware for various use-cases and applications.
- Conduct data collection and analysis on the performance of different communication technology.
- Mentor interns by providing guidance and support on their work.

PROJECTS

Energy-Aware System Control for Radio Module with Vibration Sensor
Master Thesis
10/2022 – 03/2023

- Designed and implemented algorithms to ensure optimal system performance while preventing data loss by prioritizing and parameterizing tasks execution.

People Counting by means of Radar Sensor Technology
Project Work
04/2021 – 09/2021

- Developed a remote occupancy monitoring system with radar sensor and LoRaWAN technology.

Energy-Aware Measurement Algorithm for an Energy Management Platform
Bachelor Thesis
10/2019 – 03/2020

- Designed and implemented an algorithm to efficiently measure energy generated by an energy harvesting system.

Home Automation System
Project Work
03/2018 – 09/2018

- Designed and developed a system utilizing CAN bus technology to efficiently control lighting, heating and ventilation systems.

EDUCATION

M.Eng Electronic and Mechatronic System
Nuremberg Institute of Technology
10/2020 – 03/2023
Major in Informatics

B.Eng Medical Engineering
Nuremberg Institute of Technology
10/2015 – 09/2020
Major in Mechatronics

SKILLS

Management   Problem Solving

Data Analysis

Git   Linux   Vim   LaTeX

PROGRAMMING

STM32   Flutter

C   Python   Bash

LANGUAGE

Malay – Native

English – Proficient

German – Proficient

Japanese – Basic