# 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

Problem Solving

Data Analysis

Project Management

Git   Linux   Vim   LaTeX

## PROGRAMMING

STM32   Flutter

C   Python   Bash

## LANGUAGE

Malay – Native

English – Proficient

German – Proficient

Japanese – Basic