



# 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.

📍 : Nuremberg, Germany

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## WORK EXPERIENCE

### Academic Assistant

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

Git

Linux

Vim

LaTeX

## PROGRAMMING

STM32

Flutter

C

Python

Bash

## LANGUAGE

Malay – Native

English – Proficient

German – Proficient

Japanese – Basic

## HOBBY

Pool

Table Tennis