RESUME

PERSONAL INFORMATION

Name:	Mohamad Afif Irfan Bin Abdul Halim
Date of birth:	31. December 1998
Address:	B-6-6, 67, Jln Madrasah, Gombak Setia,
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EDUCATION

10/2018 - 09/2023

Technical University of Applied Sciences Würzburg-Schweinfurt, Germany
Bachelor's Degree of Mechatronics (B. Eng.)
Core electives:
1. Automated systems and human-machine-interaction
2. Automation and robotics
Bachelor's thesis: Virtual commissioning of a linear axis machine
Final grade: 1.7 (German grading system, which is equivalent to UK First Class Honours according to SSAG)

03/2018 - 09/2018

University of Mannheim, Germany
German language course (Level A2-C1)
Final grade: DSH-2 (C1-Level)

06/2016 - 02/2018

German-Malaysian Institute, Malaysia
Cambridge International A-Levels
Final grade: 3 A's (Mathematics, Physics and Chemistry) & 1 B (German Language)

WORK EXPERIENCE

11/2023 until now

PETRONAS, Malaysia
PROTEGE–GEES at Project Delivery & Technology Division
- Involved in EPCIC planning activities for low speed wind turbine pilot research project
- Developed an automated monitoring system to track the status of engineering deliverables with Microsoft Excel

04/2022 - 09/2022

ANDREAS STIHL AG & Co. KG, Waiblingen, Germany
Internship at System Validation of Lawn Mowing Robot Department
- Worked with PROVEtech:TA- and CANape-Software for test automation
- Worked with MATLAB App Designer for a user interface of data evaluation
- Development of a Python program with a GUI for 2D garden design using drag and drop

PRACTICAL EXPERIENCE

06/2016 - 02/2018	**German-Malaysian Institute, Malaysia**

Pre-study practical experience program ("Vorpraktikum")
- Experience in the following modules: Milling, turning, pneumatics, hydraulics, basic metal processing (benchwork) and technical drawing
- Experience in the operation of machines
- Getting to know the circuit components
- Fulfilling the specified tasks

LANGUAGE SKILLS

Native language:	**Malay**
Foreign languages:	**German** (fluent in speech and writing)
	English (fluent in speech and writing)

COMPUTER SKILLS

Programming languages:	**Python**

Experience with OpenCV-, Matplotlib-, Numpy- and Standard-Library

C++
Personal projects: Car rental system, Bookshop inventory system

Software:	**Microsoft Office**

Data analysis with Excel, documentation and presentations of laboratory experiments and industrial project at the university

MATLAB and Simulink
Create the simulation models for the control loop in the field of control engineering and implementation of numerical mathematics

NI LabVIEW
Very good basic knowledge through LabVIEW courses

Siemens Simatic S7
Basic knowledge of PLC technology with the language types LD, FBD and IL

WinFACT Boris
Design simulation model of a mechatronic system
(One semester lab course)

PTC Creo-CAD
Basic drawing and design skills to the modelling of components and assemblies