



Curriculum Vitae

Ravid Febrian Ramadhan



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About me

As an accomplished automation engineer, I combine a solid foundation in electrical engineering from FH Aachen with extensive hands-on experience in PLC programming using Codesys, Step7, and TIA Portal. My expertise extends to visualizing complex automation systems with WinCC and NICOS 2.0, enabling me to design, develop, and optimize cutting-edge industrial control solutions with precision and efficiency.

In addition, I have deepened my technical skill set as a research assistant in IT infrastructure, network engineering, and IoT projects. My strong organizational and communication abilities were further honed as chairperson of the KIA-Indonesian Community Aachen, where I led collaborative initiatives and managed diverse projects. I am confident that my unique blend of technical proficiency and leadership skills will make me a valuable asset to your team.

Work Experiences

03/2024 - 12/2024

GEMIT Institute of HS Niederrhein

Research Assistant | **Place:** Mönchengladbach

Project: Development of the MXR Lab

Activity:

- Support with the development of the MXR Lab
- Manage VR-devices and accounts
- Development of interactive demonstrations to present MXR technologies clearly for students and pupils
- Conception and implementation of basic robot programming with a visual programming language for students and pupils
- Creation of demonstration for seminar with focus on IoT applications

05/2023 - 02/2024

Department of Textile and Clothing Technology at HS Niederrhein

Research Assistant | **Place:** Mönchengladbach

Project: 5GARderobe

Activity:

- Planning, setting up and managing the IT infrastructure
- Administration and optimization of remote access solutions
- Creating technical documentation for processes and systems
- Supporting team members in the integration of their tasks

03/2019 - 09/2021

07/2020 - 09/2021

Stausberg und Vosding GmbH

Student Assistant | **Place:** Aachen

Activity:

- Image creation for visualization systems from various manufacturers
- Support in the creation of P&I flow diagrams
- Support in the creation of PLC programs
- Setting up sample circuits and test environments

10/2019 - 07/2020

Bachelorthesis | **Place:** Aachen

Topic: Automation of a drinking water supply system with pumping station and elevated tank, as well as simulation using daily flow curves.

Activity:

- Image creation for visualization systems NICOS 2.0
- Programming the PLCs to control the fill level
- Simulation of the daily water consumption curves
- Simulation of the control process with Taylor process

03/2019 - 07/2019

Intern | **Place:** Aachen

Activity:

- Basis of PLC programming with Step7 and TIA Portal
- Programming and visualization of Riesler systems with PLC and panel from ABB

Education

10/2020 – 03/2025

RWTH Aachen

Master (M. Sc.) Electrical Engineering and Information Technology | Place: Aachen

- Specialization: System and Automation
- Credits: 94/120 (without degree)

Study content:

- Various sensors and actuators in silicon technology
- Control engineering
- Robot and human-machine interaction
- Simulation of robot systems, sensors and environment
- Modeling and identification of mechatronic systems
- Industry 4.0
- Battery storage system
- Embedded system (microcontroller, PLC, etc.)

09/2015 – 06/2020

FH Aachen

Bachelor (B. Eng.) Electrical Engineering | Place: Aachen

- Specialization: Automation and drive technology
- Bachelor thesis at Stausberg & Vosding GmbH with the topic: Automation of a drinking water supply system with pumping station and elevated tank, as well as simulation using daily flow curves

03/2014 – 08/2015

02/2015 – 08/2015

03/2014 – 02/2015

HS Zittau/Görlitz

Bachelor (B. Eng.) Mechatronic | Place: Zittau

Studienkolleg (educational institution for international students) | Place: Zittau

- Focus: TI-Kurs (Technik)

Technical knowledge

Programming language

- C++
- PLC programming language according to IEC 61131
- Blueprint

Software

- Microsoft Office
- Codesys
- TIA Portal
- WinCC
- Unreal Engine 5
- Container Technology (Docker, Podman)
- Version Control (Git, Perforce)
- Bash Script
- Labview
- LTSpice

Hardware

- Oscilloscope
- Multimeter
- Current clamps
- Soldering tool

Operating System

- Windows
- Linux
- Mac OS

Language skills

- **Indonesia:** Mother tongue
- **German:** Fluent in spoken and written
- **English:** Fluent in spoken and written

Social engagement

12/2020 – 12/2022

12/2021 – 12/2022

KIA – Indonesian Community Aachen

Head of the Committee | Place: Aachen

Task:

- Coordination with the internal committee members in the planning and implementation of events
- Coordination with the Indonesian associations in Aachen and North Rhein-Westphalia in the planning and implementation of events

12/2020 – 12/2021

Documentation und Public Relations | Place: Aachen

Task:

- Coordination with the internal committees for the publication of event announcements
- Publication of the event via social media, such as Instagram, Facebook and Whatsapp
- Creation of event posters with Canva
- Documentation of the events