



RIJAL RAHMAN ZUHRI

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Villa Mutiara Jaya II MB 19 no 23, Cibitung, Kab.Bekasi

A fresh graduate of Padjadjaran University with a Bachelor of Engineering in Electrical Engineering, who specialized in the Internet of Things (IoT) and Machine Learning. I gained practical experience from an internship at PT GMF Aeroasia, where I contributed to the development of a data acquisition system for industrial chiller units. My academic background was further strengthened by a final thesis project, in which I successfully implemented a machine learning model for anomaly classification on milling machinery. I was a disciplined and dedicated professional, committed to continuous learning and contributing effectively to a forward-thinking organization.

Work Experiences

PT. Panasonic Manufacturing Indonesia - Jakarta Timur, Indonesia Jun 2023 - Jul 2023

Quality Control Internship

- Incoming Quality Control: Inspect product components from suppliers and in-house production, including plastic, metal, and cable materials.
- Product Quality Control: Measures shaft diameters, checks stator windings, and verifies voltage and current on the stator.
- Defect Analysis on Rotors: Used the DMAIC method to analyze defects in the rotor, which indicated a problem with the grinding machine, resulting in a non-standard shaft size.

PT. GMF AeroAsia - Tangerang, Indonesia Sep 2023 - Dec 2023

Internship

- Designed a data capture mechanism using ultrasonic temperature and altitude sensors utilizing ESP8266 and Arduino on a laboratory scale.
- Developed a data capture system using Modbus protocol with sensors designed for industrial scale, which is currently being tested in the laboratory.
- Implemented communication between Raspberry Pi and ESP8266 for sensor data retrieval to a database via MQTT protocol, which is also being tested in a laboratory environment.

Education Level

Universitas Padjadjaran - Sumedang, Indonesia Aug 2020 - Feb 2025

Bachelor of Electrical Engineering, 3.63/4.00

- Applied machine learning algorithms (Random Forest, SVM, Neural Networks) in a final year project to perform comparative analysis and detect anomalies in milling machine sensors data.
- Served as a Laboratory Assistant for 3 semesters, guiding lab groups (5-6 students) in Fundamental Electronics, Analog Electronics, and Control Systems, while also managing module preparation and equipment calibration.
- Selected for the Electrical Technical Team in the 2022 PPK Ormawa national program (a Ministry of Education initiative), responsible for designing and implementing a safe, efficient, and standard-compliant electrical system for a community empowerment project.

Organisational Experience

Rohis Nurul Ilmi FMIPA - Sumedang, Indonesia Jan 2023 - Dec 2023

Head of Department of Strategic Studies and Dawah

- Led and directed a team of two in the design, research, and implementation of department programs.
- Wrote and published three comprehensive studies on contemporary Islamic issues.
- Built strategic collaborations with ten university faculties to implement synergistic programs, which significantly expanded the department's reach and impact.

Paguyuban Warta Purwakarta - Sumedang, Indonesia Oct 2021 - Oct 2022

Staff of Visual Communication Design Division

- Designed and produced 20+ visual assets, including social media graphics, infographics, and promotional materials, aligned with current trends to boost audience engagement.
- Actively contributed to creative concept development and visual strategy sessions, providing key insights for the monthly content calendar.
- Collaborated effectively within a 5-member design team to maintain brand consistency and ensure high-quality output across all projects.

Dewan Perwakilan Mahasiswa HMTE - Sumedang, Indonesia Jan 2021 - Dec 2021

Commission 1 staff

- Analyzed, revised, and ratified over 6 organizational bylaws and regulations to ensure their alignment with student aspirations and contemporary organizational needs.
- Oversaw 7 key programs of the Cadre Development Department, ensuring all activities were conducted in compliance with organizational statutes and guidelines.
- Collaborated within a 4-member legislative team to formulate policies and achieve consensus during official council sessions.

Skills, Achievements & Other Experience

- **Hard Skills** 🧠: Programing (C, Python, HTML, CSS, Javascript, flutter), Software (Arduino, Multisim, Matlab, CorelCAD, Microsoft Excel, Microsoft Word)