JAVIER AHMAD

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Javier is a fresh graduate in Engineering Physics from Universitas Gadjah Mada, graduating with a GPA of 3.35. Javier has hands-on experience through an internship at SKK MIGAS and fieldwork at PT. PERTAMINA RU VI BALONGAN. Javier values teamwork, clear communication, and upholds professionalism and integrity in all his endeavors.

Work Experiences

PT Daun Biru Engineering - **Jl. Pekapuran No.41, Sukamaju Baru, Kec. Tapos, Kota Depok, Jawa Barat** Feb 2025 - Present

Engineer/Contract

- Led field execution of instrumentation and electrical projects with strong focus on efficiency and safety.
- Acted as Project Manager for the Furnace Monitoring System at ITB's Chemistry Lab.
- Troubleshoot the Vibration Monitoring System using Allen Bradley PLC for the 650MW Muara Tawar project with PT DBE as subcontractor.
- Assigned as PIC for configuration and installation of MONITA (Online Monitoring System by PT Daun Biru Engineering).

PT Pertamina (Persero) Refinery Unit (RU) VI Balongan - **Jl. Raya Balongan, Kecamatan Balongan, Kabupaten Indramayu, Jawa Barat.** Jan 2023 - Feb 2023

Electrical and Instrumentation Engineer/Intership

- Studied instrumentation in the oil and gas industry, specifically in the refinery sector, including knowledge of instrumentation and control systems such as PFD, P&ID diagrams, PLC, DCS, meters/measuring instruments, and refinery-specific equipment like flow meters, pressure transmitters, level sensors, and temperature controllers.
- Identified 10 P&ID diagrams for the UNIT 32-F-104 Debutanizer Reboiler Heater Naphtha Processing Unit, 3 nodes in the HAZOP document, and the specifications of instruments used to evaluate the safeguards for the Debutanizer Reboiler Heater.
- Gained exposure to the work environment at RU VI Pertamina Balongan, familiarizing with refinery operations and safety protocols.

SKK MIGAS - **Wisma Mulia Building, 35th Floor, Jl. Gatot Subroto No.42, Jakarta** Mar 2024 - Aug 2024

Internship/Department of Distribution and Lifting

- Studied the upstream oil and gas industry in Indonesia, including the Production Sharing Contract system, industry instrumentation related to custody transfer metering systems, and participated in the coordination of several projects, such as facility sharing agreements and facility acceptance tests of Contractors Under the Cooperation Contract.
- Evaluating the update of technical requirements for custody transfer metering devices, including crude oil flow meters, orifice gas meters, ultrasonic gas meters, prover meters, master meters, and associated measuring equipment.
- Participated in monitoring and troubleshooting efforts at PT Bumi Siak Pusako to address production decline from 7,000 BOPD to 2,000-3,000 BOPD in March, focusing on pipeline leak issues. Contributed to actions that helped restore production levels to over 6,500 BOPD by September.
- Joined the custody transfer team to monitor the sale of oil and natural gas by 106 contractors under Indonesia's upstream oil and gas Cooperation Contracts.

Education Level

Universitas Gadjah Mada - **Bulaksumur, Depok District, Sleman Regency, Special Region of Yogyakarta, Indonesia** Sep 2020 - Oct 2024

Bachelor of Engineering Physics, 3.35/4.00

- Outstanding Student in the Engineering Physics Program in 2021

Organisational Experience

Student Executive Board, Faculty of Engineering, Universitas Gadjah Mada - **Yogyakarta, Indonesia** Jan 2022 - Dec 2022

Director General of Popular Issues in the Ministry of Popular and Applicative Research

- Led a team of 4 staff members, overseeing all research and project activities within the department.
- Designed and implemented a monthly research program focused on current issues relevant to students and the public, promoting awareness and engagement within the university community.
- Fostered partnerships with external organizations to collaborate on research initiatives, enabling the Student Executive Board to address popular issues and apply research findings beyond the campus environment.

Gadjah Mada Festival - **Yogyakarta, Indonesia** Jul 2022 - Nov 2022

Property and Equipment Coordinator

- Led a team of 15 people in managing property and equipment for FGM 2022, a large-scale university event that included sub-events such as theater performances at Taman Budaya Yogyakarta and concerts at Pancasila Field, UGM.
- Managed procurement and setup of over 50 items of essential properties and equipment, ensuring timely delivery and readiness at both venues.

Skills, Achievements & Other Experience

- **Achievements** ✓ (2021): Achieved 2nd place in the 2021 Evergreen Essay Competition organized by the Faculty of Public Health, Universitas Indonesia, with an essay titled “Promoting the Development and Use of Biodegradable Masks.” This essay highlighted the importance of sustainable practices in healthcare and proposed actionable strategies for implementing biodegradable materials in mask production to reduce environmental impact.
- **Achievements** ✓ (2022): Participated in the 2022 PIMNAS (Student Creativity Week) organized by the Ministry of Education and Culture, with a paper titled “Nearly Zero Energy Building in Indonesia’s New Capital City with Integration of Microbial Fuel Cell and Smart Windows Based on Local Materials.” The paper proposed a sustainable architectural solution for Indonesia's new capital, integrating microbial fuel cells and smart windows to achieve nearly zero energy consumption using locally sourced materials.
- **Achievements** ✓ (2022): Achieved 1st place in the 2022 Olgenas Paper Competition organized by the Faculty of Geography, Universitas Gadjah Mada, with a paper titled “Utilization of Syngas in Integrated Solar Combined Cycle Power Using Former Mining Lands to Address Energy Inequality in Kalimantan, Indonesia.” The paper explored innovative solutions for energy inequality in Kalimantan by leveraging syngas and solar power on reclaimed mining lands.
- **Projects** ✓ (2023): Qualified for Incentive, Student Creativity Week, Ministry of Education and Culture, with the project “CAPTURE (Carbon Abatement Performance Tracking and Utilization with Real-time Evaluation): Real-time Monitoring Carbon Capture Technology Integrated with Smart Sensors.” Developed and coded sensor instruments, enabling real-time data collection and monitoring
- **Projects** (2023): Participated in a project to design a Mini Smart Tourism Area, with a focus on developing a fuel station (SPBU) as a key feature. Responsibilities included drafting structural and layout plans in AutoCAD, programming operations with Arduino, and designing a wiring system for safe, efficient electrical connections. This hands-on project provided experience with instrumentation and control in an IoT-based environment, highlighting automation across facilities in a miniaturized smart tourism model.
- **Projects** (2023): Contributed to the development and engineering design of a distillation column system (E-201, D-103, F-101), producing key technical documents including P&ID, Instrument Index, I/O List, Cable Block Diagram, JB Wiring Diagram, Instrument Loop Drawing, Process Datasheet, and Control Narrative. This experience enhanced my skills in instrumentation and control systems, focusing on precise engineering documentation for safe and efficient industrial operations.
- **Hard Skills**: AutoCAD, PLC Allen Bradley, PLC Siemens, SCADA, Piping and Instrumentation Diagram (P&ID), Data Analysis, Python, Microsoft Office (Word, Excel, PowerPoint).
- **Soft Skills**: Teamwork, Problem Solving, Communication, Time Management, Adaptability, Critical Thinking, Leadership, Creativity.