

DIAN ANANTA MAHDINI

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Chemical Engineering graduate from Universitas Pertamina with experience in laboratory analysis, quality control, and research in the energy industry. Experienced as an intern at PT Pertamina Patra Niaga, conducting fuel quality testing in accordance with ASTM and SNI standards, as well as research experience at BRIN in the synthesis and characterization of photocatalyst materials. Possesses fundamental knowledge of Health, Safety, and Environment (HSE), including the use of MSDS and risk assessment through HAZOP and HIRA. Detail-oriented, analytical, and committed to maintaining quality standards, workplace safety, and operational excellence. Highly interested in pursuing a career in laboratory analysis, quality control, and Safety & Health (HSE).

Work Experiences

Badan Riset dan Inovasi Nasional (BRIN) - Serpong, Tangerang Selatan, Indonesia

Feb 2025 - Jul 2025

Research Intern

Badan Riset dan Inovasi Nasional (BRIN) is an Indonesian government institution focused on research, development, and innovation across various fields to support the advancement of national science and technology.

- Conducted photocatalyst material synthesis using the microwave-assisted synthesis method
- Designed and optimized experimental conditions to improve reaction efficiency
- Performed material preparation and characterization using XRD, UV-Vis DRS, and Photoluminescence (PL)
- Conducted analysis using HPLC and UV-Vis spectrophotometer
- Utilized and understood MSDS to ensure safe handling of chemicals

PT Pertamina Patra Niaga Regional Kalimantan - Kalimantan Timur, Balikpapan, Indonesia

Aug 2024 - Sep 2024

Laboratory Intern – Fuel Quality & Quantity Control

PT Pertamina Patra Niaga is a subsidiary of Pertamina engaged in the distribution and trading of energy, particularly fuel products and their derivatives in Indonesia.

- Conducted fuel sampling in accordance with ASTM standards and company specifications
- Performed fuel quality testing (density, viscosity, water content, sulfur) based on ASTM standards to ensure product specification compliance
- Operated laboratory equipment such as Karl Fischer Titrator and other testing instruments with a high level of accuracy
- Supported Quality Control processes in maintaining product consistency during storage and distribution

Academic Background

Universitas Pertamina - Jakarta Selatan, DKI Jakarta, Indonesia

Sep 2021 - Oct 2025

Bachelor of Chemical Engineering

- Possess understanding of industrial process risk analysis using HAZOP and HIRA methods
- Possess knowledge in Risk Management, Project Management, Waste Treatment, Occupational Health, Safety and Environment (HSE), and Data Analysis.
- Conducted final project research on the development of photocatalyst materials for CO₂ conversion into value-added products
- Have basic knowledge of data analysis using Power BI and basic skills in AutoCAD

Experience

MySkill – Microsoft Excel Course

Apr 2026 - Present

- Processed and analyzed data using sorting, filtering, data cleansing
- Utilized formulas such as IF, COUNTIF, VLOOKUP, and INDEX-MATCH for data analysis
- Applied data formatting techniques (Format as Table, Cell Styles, Conditional Formatting) to improve data clarity
- Created data summaries and performed basic aggregation to support decision-making

AIChE - American Institute of Chemical Engineers - Universitas Pertamina

Dec 2023 - Jun 2024

Head of External Affairs

American Institute of Chemical Engineers (AIChE) is an international organization in the field of chemical engineering that supports the development of knowledge and professionalism among students and practitioners.

- Established connections between student organizations (UKM), other student bodies, campus institutions, and external stakeholders (companies and communities)
- Managed work programs involving external parties, such as competitions, seminars, training sessions, and inter-organization collaborations
- Led and supervised the external affairs team to ensure programs were executed according to plan

A student organization focused on research development and scientific writing, aimed at enhancing critical and analytical thinking skills.

- Organized team-building activities such as bonding events, outbound programs, and games to strengthen teamwork
- Acted as a communication bridge among members to ensure inclusivity and prevent anyone from feeling overlooked
- Fostered a sense of belonging within the organization through engaging and memorable activities

- Participated in the preparation and execution of events involving external parties (seminars, competitions, inter-campus collaborations)

Skills & Certifications

- **Hard Skills:** Laboratory Analysis (HPLC, UV-Vis, XRD), Process Flow Diagram (PFD) Interpretation, Chemical Safety & MSDS Interpretation, Basic Risk Analysis (HAZOP, HIRA)
- **Soft Skills:** Teamwork, Communication, Time Management, Attention to Detail, Adaptability, Task & Project Management
- **Languages:** Indonesian: Native, English: Intermediate (good reading & writing, developing speaking skills), Korean: Basic proficiency (reading & writing, limited comprehension)
- **Software Skills:** Microsoft Word (Expert Level), Microsoft Excel (Intermediate Level), Microsoft Visio (Technical Drawing), Canva
- **Training Integrated Management System (IMS) 📄** (2026): Understanding of ISO 9001, ISO 14001, ISO 45001, SMK3, hazard identification, risk assessment, compliance, and continuous improvement.
- **ELA974 SChE® Hazards and Risk Introduction to Hazard Identification and Risk Analysis 📄** (2024): Certification in fundamental hazard identification and risk analysis in chemical processes. This program provides an understanding of the HIRA (Hazard Identification and Risk Analysis) method to assess potential hazards and determine appropriate mitigation measures.
- **ELA954 SChE® Certificate Program - Lab Safety 📄** (2025): Certification in laboratory safety principles, risk control, emergency procedures, and safe work practices in chemical laboratory environments to support research and experimental activities in compliance with occupational health and safety (OHS) standards.
- **ELA983 SChE® Hazards and Risk: Hazard Identification and Risk Analysis 📄** (2024): Certification focused on the application of systematic hazard identification and risk analysis techniques in chemical processes. The program covers methods such as HAZID, HAZOP, and other risk assessment techniques to enhance process safety and accident prevention.