



NURUL FEBRIYANTI

Bekasi, Indonesia | nyuyy11@gmail.com | +6281585044279 | www.linkedin.com/in/nurulfbrynti | bit.ly/PortofolioNurulFebriyanti

Chemical Engineering graduate with experience in process analysis, operational improvement, and industrial projects within manufacturing environments. Skilled in data analysis, root cause analysis, and problem solving with strong interest in process optimization, quality improvement, and operational efficiency.

Professional Experience

PT Gochem Globalindo - Jakarta, Indonesia

Apr 2025 - Present

Business Analyst

A specialized supplier of chemical raw materials and specialty, serving diverse industries including automotive, coating, fertilizer, paper, home care and water treatment across Indonesia.

- Supported New Business Development (NBD) initiatives for a manufacturing subsidiary through market feasibility analysis, production coordination, and operational preparation.
- Conducted product and operational analysis to support process efficiency, quality improvement, and business performance enhancement.
- Analyzed technical documents such as CoA, SDS, TDS, and journal references to support product specification evaluation and customer requirements.
- Resolved 30+ technical issues through data analysis, problem solving, and coordination with internal teams and stakeholders.
- Supported operational activities and reporting processes to ensure smooth coordination across departments and project execution.

Politeknik Negeri Bandung - Bandung, Indonesia

Jun 2023 - Dec 2023

Research Assistant

The research focused on synthesizing materials to support innovative product development across various applications.

- Conducted literature review, technical analysis, and data analysis on raw material trends for sustainable battery development research.
- Assisted in experiment design, data collection, and result interpretation using Design Expert software.
- Prepared technical reports, research documentation, and analytical data for academic publications.

PT Kilang Pertamina Internasional RU VI - Indramayu, Indonesia

Aug 2023 - Oct 2023

Process Engineer Intern

PT Kilang Pertamina Internasional (PT KPI) is a Refining & Petrochemical Subholding of PT Pertamina (Persero) which is a strategic holding company.

- Analyzed operational and utility performance data to support process efficiency and equipment reliability evaluation.
- Performed root cause analysis using Lean and Fishbone methods to identify operational issues and recommend improvements.
- Supported process improvement initiatives to enhance operational effectiveness, product quality, and waste reduction.
- Developed cleaner production improvements resulting in 75% water savings during ion exchanger regeneration.

PT Indonesia Power KMJ - Garut, Indonesia

Aug 2022 - Sep 2022

Chemical, Occupational Health & Safety, and Environmental Intern

PT Indonesia Power is one of the subholdings of the electricity generation company PT PLN (Persero).

- Assisted in occupational health and safety supervision, risk identification, and work accident prevention activities.
- Supported implementation of operational procedures and compliance with ISO 45001 and ISO 14001 standards.
- Evaluated environmental and operational impacts within geothermal power plant processes.
- Observed chemical handling and operational systems within industrial energy production environments.

Core Competencies

Process & Quality:

Root Cause Analysis • Process Improvement • Operational Analysis • Quality Documentation • Continuous Improvement • Process Optimization • Technical Analysis

Operations & Coordination:

Project Coordination • Stakeholder Management • Cross-Functional Collaboration • Reporting & Documentation • Problem Solving

Technical Tools:

Microsoft Excel • Aspen Hysys • Aspen Plus • Visio • Power BI • Design Expert • PowerPoint

Education

Politeknik Negeri Bandung

Bachelor of Applied Science in Chemical Engineering, 3.76/4.00

Aug 2020 - Jul 2024

- Final Project "Manufacturing of Solid Electrolyte Polymers for Secondary Zinc- MnO₂ Battery Applications"
- Plant Design "Butyl Acetate from Acetic Acid and Butanol with production capacity 20.000 tons/year"
- Product Development "Car Prototype: Designed and built a car powered by a chemical energy source and ensuring safe operation"
- Research Project "Optimization of Bioethanol Production from Tapioca Starch Cassava via Steam Hydrodistillation "

Organisational Experience

HMJTK - POLBAN

Head of Scientific Division, Department of Science, Research and Technology.

Mar 2023 - Dec 2023

- Led 15+ members and managed scientific and research-related organizational programs.
- Coordinated laboratory and pilot plant tour activities for external participants.

Polban Mengajar Community

Head of Curriculum Division

April 2021 - Jan 2023

- Coordinated educational programs and learning activities with 25+ members and partner schools.
- Developed learning materials and collaborative teaching strategies for elementary school students.

Chem-E-Car Community

Team Leader Electra 6.0

Dec 2021 - Dec 2023

- Led team coordination for international Chem-E-Car competition project execution and safety assessment.

Achievements & Certifications

Achievements

2023

1st Winner of CHEMFAIR National Essay Competition by Chemical Engineering Politeknik Negeri Bandung

2022

Finalists of NESCO National Essay Competition by Engineering Faculty Universitas Indonesia

Finalists in Indonesia Chemical Reaction Car Competition (ICRCC) International Level

Winner of Passing Pekan Kreativitas Mahasiswa (PKM) Funding —RE Dikti

Winner of Passing Pekan Kreativitas Mahasiswa (PKM) Funding — RE Polban

2021

Silver Medal Winner of the PKM-KC Polban Pekan Ilmian Mahasiswa (PIM)

Certifications

2025

Quality Management for Operational Excellence – Project Management Institute, 2.50 PDUs

Product Innovation for Product Managers – Project Management Institute, 1.00 PDUs

Fundamentals of Sustainable Supply Chains – Project Management Institute, 0.75 PDUs

2024

Product Management: Building a Product Roadmap – Project Management Institute, 0.75 PDUs

Root Cause Analysis: Getting to Root of Business Problems – Project Management Institute, 0.50 PDUs

Bootcamp and Competency Testing "Project and Product Management" – Myskill

2023

Training and Competency Testing "Mass & Heat Transfer by Extraction, Fluid Flow & Heat Exchanger Methods" – INSMART