

Rizky Febri Ibra Habibie, B. Eng., M.B.A.

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PROFILE

Industrial Management graduate and Chemical Engineer with experience in production leadership, equipment engineering, and warehouse operations. Currently Production Section Leader at 明鴻木器股份有限公司, leading manufacturing teams, improving processes, and driving digital solutions such as a custom MES and in-house calculation tools.

EDUCATION

Dibimbing.id | Data Science & Data Analyst Certification | April 2025 – Present

National Taiwan Normal University | Mandarin Training | July 2023 – May 2024

National Taiwan University of Science and Technology | Master of Industrial Management (GPA 3.78/4.30) | Fall 2021 – Spring 2023

- Researched on optimization model of Vending Machines with Python.

Islamic University of Indonesia (UII) | Bachelor of Chemical Engineering (GPA 3.35/4.00) | August 2016 – November 2020

- Researched Preliminary Design of Furfuryl Alcohol from Furfural and Hydrogen with 18.000 Tons/Year of Capacity.
- Researched Activated Dolomite as a Catalyst for The Production of Biodiesel from Peanut Oil.

WORK EXPERIENCE

明鴻木器股份有限公司 | Management Trainee (儲備幹部) June 2024 – March 2025 | Warehouse Trainee (倉儲管理) December 2024 – March 2025 | Equipment Engineer (設備工程) March 2025 – August 2025 | Production Section Leader (生產領班) August 2025 – Present

- **As a Management Trainee**
 - Ensure production line stations comply with the target and standards.
 - Spearheaded the development of a simple Windows and Ubuntu application to calculate the doorframe with a database of different types of locks, to reduce the possibility of human errors.
 - Developing comprehensive SOPs for machine maintenance and repair to enhance efficiency and reduce downtime.
- **As Warehouse Trainee**
 - Assigned to the warehouse department to gain hands-on experience in warehouse operations, including inventory management, documentation processes, and accessories preparation.
 - Developed a new warehouse layout using FlexSim simulation software, applying two innovative methods: narrow aisle racking and mezzanine warehouse designs.
- **As Equipment Engineer**
 - Introduced structured preventive maintenance procedures and created a comprehensive equipment database with condition labeling to improve reliability and maintenance planning.
 - Established equipment inventory and scrap management systems ensure the availability of spare parts and reduce last-minute procurement issues.
 - Initiated process documentation for equipment management, setting the foundation for consistent practices in future operations.
- **As Production Section Leader**
 - Supervise daily production activities to ensure on-time delivery, product quality, and productivity targets are consistently achieved.
 - Lead and train a team of operators, assigning tasks, and monitoring performance.

- Collaborate with maintenance, quality, and planning teams to resolve operational issues and maintain a smooth workflow.
- Oversee production records, tracking output, downtime, and material usage to support decision-making.
- Drive continuous improvement by identifying inefficiencies and spearheading initiatives, including the development of a custom Manufacturing Execution System (MES) using the Flask framework to digitalize order tracking and enhance production visibility.

PT PERTAMINA Refinery Unit IV Cilacap, Indonesia | Internship | February 2019 – April 2019

- Studied in the Gas Treating Unit (GTU) with the Sulphur Recovering Unit (SRU) team.
- Develop and design processes for the Gas Treating Unit. Includes the creation of process flow diagrams (PFDs) to detail the process.
- Evaluated, simulated, and reported the Low-Pressure Contactor with Aspen Hysys application as a special project with only less than a month of work.

ORGANIZATIONAL EXPERIENCE

Universitas Terbuka Agencies in Taiwan | Staff of Public Relations | January 2022 – December 2022 | Head of Organization | January 2023 – January 2024

- **As Head of Organization**

Led the supervision and oversight of all divisions within the agency, ensuring operational excellence and alignment with strategic objectives.

- Led the development of a new website platform, improving student data management efficiency, accuracy, and user experience. This boosted student recruitment by 90% through innovative strategies.
- Managed the graduation event, optimizing logistics and manpower for a streamlined, high-quality event with fewer resources.
- **As Public Relations Staff**
 - Developed and executed a comprehensive social media strategy across multiple platforms (Instagram, Facebook, TikTok). Managed content calendar to ensure the timely publication of relevant and engaging posts tailored to the student community, including study tips.

THESIS

A Joint Optimization Model for Product Selection, Shelf Display, and Replenishment Considering Dynamic Demands for Smart Vending Machines | Author | January 2023 – July 2023

- Developed a mixed integer non-linear programming model to optimize product selection, shelf display, and replenishment for Smart Vending Machines (SVM) under dynamic demand.
- Incorporated stock-out cost considerations to balance inventory holding costs and service levels in replenishment planning.
- Used a Genetic Algorithm to solve the optimization problem, demonstrating high-profit margins and reduced stock-outs across diverse datasets.
- The study provides a strong framework for maximizing SVM profit through effective product and inventory management.

Preliminary Design of Furfuryl Alcohol from Furfural and Hydrogen with 18.000 Tons/Year of Capacity | Author | March 2020 – November 2020

- Led pre-design of a furfuryl alcohol facility using furfural hydrogenation with copper-sodium silicate catalyst to reduce imports.
- Designed a Fixed Bed Multitube Reactor for safe, low-risk gas-phase reactions at 170°C and 1 atm.
- Conducted an economic study, securing IDR 566.35 billion in fixed capital, forecasting 11% ROI, with a 4.8-year payback period.

SKILLS

Soft Skills: Leadership, proactive, initiative, communicative and informative, management, strategy, analytical.

Hard Skills: Ms.Office, Draw.io, Bizagi Modeler, Python, Aspen Hysys, Pro/II, Visily, Jira, DrawSQL, Canva.

Language: Bahasa Indonesia (Native), English (TOEIC: 870), Chinese Traditional (TOCFL: A2)