

# FIKRIYYAH NUR HIDAYATI

+62859144722100 | fikriyyahidayati19@gmail.com | www.linkedin.com/in/fikriyyah-nur-hidayati | bit.ly/portofolio-fikriyyah

## PROFESSIONAL SUMMARY

Chemical Engineering fresh graduate with hands-on experience in laboratory analysis and research management. Skilled in raw material and product quality testing, process variable identification, and data documentation. Eager to contribute to maintaining quality standards and occupational safety in a professional environment.

## EDUCATION

Universitas Sebelas Maret | Bachelor of Chemical Engineering | GPA: 3.79/4.00

Aug 2021 – Jul 2025

- **Final Project:** Preliminary Design of Phthalic Anhydride Plant from O-xylene and Air by Catalytic Oxidation Process with a Capacity of 100,000 Tons per Year
- **Achievement:**
  - **1<sup>st</sup> Winner** – BRM National Scientific Writing Competition 2024 | Universitas Tadulako  
(Conducted experimental research on charcoal soap development for sensitive skin, including raw material quality characterization and final product specification testing)
  - **Best Poster & Student Palm Oil Research Grantee 2023/2024** | Badan Pengelola Dana Perkebunan Kelapa Sawit
  - **1<sup>st</sup> Winner** – ECODAYS National Essay Competition 2023 | ECODAYS Universitas Sebelas Maret
  - **Student Creativity Program Grantee for Exact Research (PKM-RE) 2023** | Directorate General of Higher Education (Dikti)
  - **3 Journal Publication & 2 Patent - Intellegent Property/ HKI** | [Composition Optimization on Biodegradable Straws](#) | [Effect of Pyrolysis Temperature Variation](#) | [Modification of Sago Starch](#) | No. [EC00202495138](#) (Ags, 2024) | [EC00202522969](#) (Jan, 2024)

## EXPERIENCE

Chemical Engineering Laboratory | Laboratory Assistant

Mar 2024 – Dec 2024

- Supervised 51 students in solid-liquid batch extraction, sieve analysis, and permanganometric titration (redox titration) practicals
- Analyzed data failure in 2 out of 19 groups, mitigated sensitive reagent storage issues, and validated alternative reagents, enabling successful outcomes for the remaining 17 groups
- Conducted experimental trial runs to verify work procedures and minimize operational errors
- Managed chemical reagent inventory and distribution to ensure material availability and seamless laboratory operations

Badan Pengelola Dana Perkebunan Kelapa Sawit (BPD PKS) | Research

Nov 2023 – Oct 2024

- Designed and optimized bioproduct formulations using Response Surface Methodology – Box-Behnken Design (RSM-BBD) based on literature studies of raw material physicochemical characteristics
- Conducted raw material planning and optimized raw material utilization through the Formacell method, achieving an 88% production yield while ensuring consistent material availability
- Performed raw materials testing (alkalimetric titration, iodometry, pH, moisture content analysis) and documented data in worksheets to ensure raw materials met quality standards
- Analyzed characteristics of 15 formulation variations using testing data to identify key process variables affecting product quality

Direktorat Pembelajaran dan Kemahasiswaan – Program Kreativitas Mahasiswa | Research

Jun 2023 – Nov 2023

- Performed raw material testing using Biuret & Van Wesslink reagents, formulation development, and product testing
- Analyzed component interaction data across testing trials to refine product stability and optimize raw material ratios
- Managed research report activities, proposals, and final report in accordance with grant requirements

## ORGANIZATIONAL EXPERIENCE

Chemical Engineering Student Association (HMTK UNS) | Academic Staff

Mar 2022 – Jan 2024

- Led the preparation, committee and lecturer coordination, and execution of an event attended by 100+ participants
- Sourced, contacted, and secured a speaker for a seminar with 40+ participants, ensuring the agenda ran seamlessly
- Coordinated 14 Intensive Class sessions for all academic years as exam preparation and served as a course tutor

Chemical Engineering Car | Finance and Administration Staff

Dec 2022 – Nov 2023

- Developed competition funding proposals for each team and managed organizational administration
- Designed a transparent and structured financial reporting system

## CERTIFICATION & SKILLS

### Certification & Training:

- Occupational Safety and Health Expert/AK3 (BNSP, Jul 2025)
- Quality Management System ISO 9001:2015 (Udemy, 2026)
- Food Laboratory Edition: Good Laboratory Practice (GLP), HPLC (Concepts, Components Applications), Laboratory Safety (Mind Education, 2025)
- Kaizen & 07 Tools QA/QC: Data Processing & Visualization (Pareto Chart, Fishbone Diagram, 5 Whys, Scatter Plot, Histogram, Control Chart) using Excel (DDSAZ Academy, 2026)

**Skill:** Data Analysis | Volumetric Analysis | Laboratory Skill | Quality Testing | Technical Documentation | Microsoft Office (Excel, Word)