

KEZIA PATRICIA GIOVANNA HUTAHAEAN

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PROFILE SUMMARY

Chemistry graduate from Brawijaya University with a strong academic focus on analytical chemistry, sustainable chemistry, biosensor, and biopolymer edible coatings. Supported by internship experience in HSSE division Pertamina Trans Kontinental, Laboratory Assistant of Advanced Analytical Chemistry, and research projects involving analytical instruments, data analysis, and scientific methods.

Experienced in Research & Development within the synthetic leather industry including raw material evaluation, PVC and PU leather development, quality control, and laboratory testing. Highly interested in Research & Development (R&D), QA/QC, Laboratory Operations, EHS, or related fields.

EDUCATION

Brawijaya University
Bachelor of Science in Chemistry

- Achievement :** Two gold medal at 6th Karangturi International Choir Competition 2023 — As a competition Team Member of Cientifico Choir, Faculty of Science, Brawijaya University.

2021 – 2025
(GPA: 3.40/4.00)

WORK EXPERIENCE

PT Sinar Continental – Cimahi, Indonesia
R&D Foreman Junior – PVC Division

- Tested, evaluated, and created final reports of incoming raw materials for specification compliance, assess material performance, and determine their suitability as substitutes for standard raw materials.
- Conducted laboratory testing for quality products including thickness, handfeel, viscosity, density, color matching (LAB), gloss index, tensile and elongation, etc.
- Produced a laboratory-scale PVC synthetic leather in accordance with customer specifications, followed by performing material tests for specification compliance.
- Developed a laboratory-scale water-based PU leather and its updated formulations based on previous trial results.

Apr 2026 – Present

Pertamina Trans Kontinental – Jakarta, Indonesia
HSSE Staff Intern – HSSE Division

- Conducted risk assessments and safety audits with the HSSE team to identify potential hazards, evaluate operational risks, and recommend appropriate mitigation strategies to improve safety performance.
- Participated in weekly, monthly, and quarterly HSSE meetings, including the Sub Holding Safety Coordination Meeting, to facilitate safety communication, monitor program implementation, and align cross-functional initiatives.
- Conducted GEMILANG seminar event for Vision Zero program implementation with HSSE team..
- Participated in HSSE environmental program named Green Company FGD to develop a green company roadmap.
- Calculated and compiled carbon emissions data to support port energy consumption reporting and provide environmental performance information for HSSE monitoring and sustainability initiatives.

Jul – Sep 2024

Department of Chemistry, Faculty of Science, Brawijaya University – Malang, Indonesia
Laboratory Assistant of Advanced Analytical Chemistry

- Prepared laboratory equipment and analytical instruments by performing calibration, functionality checks, and readiness verification in compliance with laboratory SOPs before each practical session.
- Delivered preliminary direction which consist of experimental instruction and laboratory safety standards for 35+ students.
- Demonstrated sample preparation, analytical techniques, laboratory procedures, and proper instrument operation to ensure accurate experimental execution and reliable analytical results.
- Assisted students for data analysis and interpretation by providing technical guidance and addressing laboratory-related questions throughout the practical sessions.
- Evaluated report evaluation begin with verifying data accuracy and consistency, data analysis, and determined the final conclusion

Jan – Jun 2024

RESEARCH PROJECT EXPERIENCES

Effect of Glutaraldehyde and Phenol Red Concentration on the Characteristics of Polyvinyl Alcohol (PVA)/Chitosan Film as a pH Sensor – <i>Final Project</i>	Feb – Jul 2025
Developed and optimized PVA/chitosan-based smart packaging integrated with phenol red as a pH indicator through WVTR, colorimetric, UV-Vis, FTIR, physical and mechanical characterization to detect raw food spoilage.	
Production of Solid Perfume from Apple Extract with the Addition of Rose and Lemon Aroma – <i>Chemistry Project</i>	Oct – Dec 2024
Developed and evaluated a solid perfume formulation using a natural ingredients through essential oil extraction, formulation optimization, and quality test.	
Isolation of Curcumin Compound from Turmeric (<i>Curcuma longa</i>)	Aug – Dec 2023
Isolated curcuminoids and their derivative compounds from <i>Curcuma longa</i> using the Soxhlet extraction , separated extracted compounds through thin-layer chromatography (TLC), and identified curcuminoid compounds using UV-Vis spectrophotometric analysis.	
Processing Household Waste into Compost	Jul – Aug 2023
Conducted a hands-on environmental workshop on compost and eco-enzyme production using household organic waste, providing practical guidance on waste processing techniques.	
Synthesis of Dibenzalacetone	Aug – Dec 2022
Synthesized dibenzalacetone through an aldol condensation reaction between benzaldehyde and acetone, followed by product yield and purity evaluation.	

ORGANIZATIONAL & COMMITTEE EXPERIENCE

CIENTIFICO CHOIR	Jan – Dec 2023
<i>Sheet Music Staff and Competition Team</i>	
- Prepared, organized, and digitized physical musical scores required for choir competitions and performance,, ensuring accurate, completeness, and timely distribution to choir members. - Conducted regular training sessions for 50+ choir members, providing musical guidance and rehearsal support to improve performance quality and competition readiness.	
MMD Brawijaya University 2023	Jul – Aug 2023
<i>Documentation Coordinator</i>	
- Coordinated all program documentation activities by planning documentation schedules, content collection, and documentation workflow - Created and managed photo, video, and social media content to support program promotion and documentation.	
Aromatic Chemistry 2022: Chemistry Department Student Orientation	Apr – Nov 2022
<i>Publication, Documentation, and Decoration Staff</i>	
- Designed promotional and event materials, including posters, proposals, backdrops, and logos, using Adobe Illustrator, while contributing to venue layout and decoration planning to support event execution. - Produced photo and video documentation throughout the event and created engaging multimedia content to enhance event presentation and promotional activities. - Managed the event's Instagram account by planning and publishing engaging content to increase audience engagement and support event communication.	

CERTIFICATION & TRAINING

Hands-on Training in AAS Analytical Method Verification – Labmania Indonesia	Jan 2026
TOEFL ITP – Englishvit	Sep 2025
General Occupational Health and Safety (K3) Expert Training – Miners Education	Aug 2025
Microsoft Office Desktop Application Training – TRUST Training Partner	Jun 2025
ISO 17025:2017 (Laboratory Management System) – Makin Ahli	Jun 2024

SKILLS

HARD SKILLS

- **Laboratory & Analytical:** Laboratory Techniques, Laboratory Procedures, Analytical Techniques, Laboratory Instrumentation, Data Analysis, Data Interpretation, Scientific Report Writing.
- **Analytical Instruments & Methods:** UV-Vis Spectrophotometry, FTIR Spectroscopy, Atomic Absorption Spectroscopy (AAS), Colorimetric Analysis.
- **Scientific Software:** Gnuplot, Origin, MarvinSketch.
- **Productivity Tools:** Microsoft Office (Excel, Word, PowerPoint), Google Workspace (Sheets, Docs, Slides).
- **Creative Tools:** Adobe (Photoshop, Illustrator).

SOFT SKILLS

- Effective Communication
- Critical Analysis
- Attention to Detail
- Problem Solving
- Teamwork & Collaboration
- Time Management
- Adaptability
- Discipline

LANGUAGES

- Bahasa Indonesia (Native)
- English (Intermediate)