

KEZIA PATRICIA GIOVANNA HUTAHAEAN

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East Jakarta, DKI Jakarta



PROFESSIONAL SUMMARY

I am a chemistry graduate from Brawijaya University with professional experience in HSSE through an internship at Pertamina Trans Kontinental which provided me with the opportunity to conduct risk assessments, environmental data analysis, and technical reporting. Experience as an advanced analytical chemistry laboratory assistant and several research projects enhanced my ability to operate analytical instruments and perform scientific procedures from planning, formulation, data collection, and reporting results. Actively participating in academic and non-academic activities, thus strengthening skills such as good adaptability, good teamwork, problem-solving, fast learning, and creativity that are essential for future professional work. Enthusiastic to get job opportunities, especially in the fields of Environment & Safety, Quality Assurance/Quality Control, Research and Development (R&D), and other related fields.

EDUCATION

UNIVERSITAS BRAWIJAYA

Bachelor of Science – GPA 3.40 / 4.00

2021 – 2025

- Adept a solid foundation in chemistry principles, especially in analytical chemistry.
- Skilled in operating various laboratory instruments such as spectrophotometer UV-Vis, FTIR, AAS, tensile, and spectrophotometer colorimetry and being able to interpret the spectra results.
- Involved with several researches and organization activities.

WORK EXPERIENCES

HSSE Division, Pertamina Trans Kontinental, North Jakarta

HSSE Staff Intern

Jul 2024 – Sept 2024

- Supported HSSE work programs towards vision zero (zero diseases, zero recordable incidents, zero fraud bunkers, and zero contamination).
- Conducted risk assessments and safety audits with HSSE team to identify potential hazards and recommend mitigation strategies required.
- Conducted regular safety meetings with HSSE team on a weekly and monthly basis.
- Conducted a quarterly Safety Coordination Meeting with HSSE team for the entire Sub Holding company.
- Joined HSSE team to conduct a Vision Zero main program called GEMILANG as a facilitator.
- Supported HSSE environmental program called Green Company to develop a green company roadmap.
- Calculated and provided carbon emissions data to support port energy consumption reports.

Chemistry Department, Faculty of Science Brawijaya University, Malang

Laboratory assistant of Advanced Analytical Chemistry

Jan 2024 – Jun 2024

- Provided experimental instructions to over 35+ students on the lab topic.
- Ensured instrument calibration and readiness in accordance with laboratory SOPs.
- Provided explanations and guidance to students in sample preparation, analytical procedures, and data interpretation.
- Evaluated laboratory results, ensured data accuracy, and provided final assessments.

ORGANISATIONAL & COMMITE EXPERIENCES

CIENTIFICO CHOIR

Partiture Staff and Competition Team

Jan 2023 – Dec 2023

- Provided comprehensive musical scores required for competitions and various engagements.
- Convert musical scores from physical format to soft file format.
- Validated the origin of every partiture for licensed and unlicensed.
- Conducted regular training sessions for over 50+ choir members.

MMD Brawijaya University 2023

Documentation Coordinator

July 2023 – August 2023

- Responsible for all documentation during the program.
- Created social media content for the ongoing programs.
- Conducted the documentation team regarding editing, planning, and recapping documentation during the program.
- Ensured the execution of planning and developed documentation on a weekly basis.

Pengenalan Kehidupan Kampus Departemen Kimia Aromatic Chemistry 2022

Publication, Documentation, and Decoration Staff

April 2022 – Nov 2022

- Created various designs such as posters, proposals, backdrops, and logos using Adobe Illustrator.
- Developed the strategic planning for the venue layouts and decorations.
- Held the responsibility of taking event documentation photos.
- Produced engaging and informative video content for enriching the event's presentation.
- Managed the event's Instagram profile and posted engaging content.

RESEARCH PROJECTS, ACHIEVEMENTS & OTHER EXPERIENCES

Effect of Glutaraldehyde and Phenol Red Concentration on the Characteristics of Polyvinyl Alcohol (PVA)/Chitosan Film as a pH Sensor

Research for the development of a new smart packaging

Feb 2025 – July 2025

- Developed PVA/chitosan-based smart packaging integrated with phenol red as a pH indicator for spoilage of raw materials detection.
- Optimized formulation concentrations of glutaraldehyde as a crosslinker and phenol red as a pH indicator using the WVTR test and visual color change analysis.
- Conducted PVA/chitosan packaging characterization, including physical and mechanical property tests, UV-Vis and FTIR spectrophotometric analysis, and also colorimetric data.

Production of Solid Perfume from Apple Extract with the Addition of Rose and Lemon Aroma

Product Development in Chemical Projects

Oct 2024 – Dec 2024

- Developed a solid perfume formulation using a natural base with consideration for skin safety and product stability.
- Performed essential oil extraction from green apple, rose, and lemon using laboratory-scale extraction methods.
- Evaluated formulation characteristics related to fragrance performance and material compatibility.

Processing Household Waste into Compost

Individual environmental work program

July 2023 – August 2023

- Designed and implemented a household composting program to promote waste reduction.
- Conducted an environmental hands-on workshop on compost and eco-enzyme production from inorganic household waste.

Isolation of Curcumin Compound from Turmeric (*Curcuma longa*)

Research to obtain the curcumin compound from turmeric

August 2023 – Dec 2023

- Isolation of curcuminoid and their derivatives compounds using the Soxhlet extraction method.
- Conducted compound separation through thin-layer chromatography procedure and identified them using the spectrophotometer UV-Vis analysis.

Synthesis of Dibenzalacetone

Research to obtain dibenzalacetone crystal

August 2022 – Dec 2022

- Generated dibenzalacetone compound in a liquid form from an aldol condensation reaction between benzaldehyde and acetone.

- Performed recrystallization and purification to obtain high-purity crystalline products.
- Evaluated reaction outcomes based on yield and product purity.

6th Karangturi International Choir Competition 2023, Semarang, Indonesia

As a part of the competition team of Cientifico Choir, Faculty of Science, Brawijaya University

Nov 2023

- Participated and achieved two gold medals in the Equal Voice adult category (total points: 82.75) and a gold medal in the Mixed Category (total points: 83.15).

TRAINING EXPERIENCE AND CERTIFICATE

- Hands on Training Verifikasi Metode Analisis AAS – Labmania Indonesia (January 2026)
- Microsoft Office Desktop Application Training – TRUST Training Partners (Universitas Brawijaya) (June 2025)
- TOEFL ITP – Englishvit (September 2025)
- Training Diklat Ahli K3 Umum – Miners Education (August 2025)
- ISO 17025:2017 (Laboratory Management System) – Makin Ahli (June 2024)

SKILLS

- **Technical Skills** : Operating laboratory instrument, Writing scientific reports, Video editing, Data Analysis, Data Interpretation, Laboratory Procedures, and Analytical Techniques.
- **Personal Skills** : Discipline, Patient, Teamwork, Problem solving, Effective Communication, Critical Analysis.
- **Software** : Microsoft Office (Word, Excel, PowerPoint), Gnuplot, Origin, MarvinSketch, Adobe (Photoshop, Illustrator)
- **Language** : Bahasa Indonesia (native), English (intermediate).