

GARNETA HEPPY CHANDRA

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EXECUTIVE SUMMARY

I am a chemistry graduate from Universitas Lampung with a strong interest in Quality Control (QC), Analytical Development, and Quality Assurance (QA). Through academic projects, laboratory work, and industrial internship experiences, I have developed practical skills in analytical testing, analytical method development and validation, experimental design, data analysis, material and sample evaluation, and quality documentation. I am familiar with GMP principles and established laboratory quality practices. I am an analytical, proactive, and adaptable individual with a passion for continuous learning and innovation, committed to contributing to the development, evaluation, and quality assurance of products that meet established standards and regulatory requirements.

EDUCATION

University Lampung

Aug 2022 – July 2026

BSc in Chemistry

GPA: 3.52 / 4.00

Project and Thesis : Study on the Removal of Non-Oil Components Using Ultrasonication and Rice Husk Carboxyl Adsorption in the Processing of Crude Palm Oil into Biodiesel

WORK EXPERIENCE

Balai Pengujian Kesehatan Ikan dan Lingkungan (BPKIL) Serang

October 2024 – December 2024

Quality Control Analyst Intern

- Conducted qualitative and quantitative analysis test of aquatic organism medicine according to company claims that started from sample preparation, instrument operation, data processing, and interpreting data.
- Conducted HPLC analysis on 50+ premix, pharmaceutical, and environmental water samples.
- Conducted Flame AAS analysis on 50+ premix and pharmaceutical samples.
- Conducted GC-FID analysis on 6 Herbal aquaculture pharmaceutical samples.
- Performed proximate analysis of 50+ premix samples, including moisture, ash, crude fat, crude fiber, and protein determination.

Achievement: Contributed to efficient laboratory testing by delivering accurate and timely analytical results to support product quality evaluation.

Department of Chemistry, University Lampung

2025 – 2026 (Two Academic Periods)

Teaching Assistant, Physical Chemistry Laboratory I & II

- Assisted laboratory in conducting undergraduate Physical Chemistry laboratory sessions.
- Guided students through experimental procedures and laboratory safety protocols
- Supervised practicum sessions, correct use of analytical instruments, verified experimental data, and evaluated student laboratory reports for accuracy and completeness.
- Supported lecturers in preparing reagents, equipment, and laboratory materials prior to each practicum session.

RESEARCH PROJECT

Research Staff Member

April 2024 – August 2024

Program of Kampus Merdeka, University Lampung

- Assisted lecturers in a research project on the conversion of bentonite into Zeolite-X and its application as a catalyst for processing crude palm oil (CPO) into biohydrocarbons via pyrolysis.
- Conducted synthesis, characterization of zeolite catalysts, and performed laboratory experiments involving adsorption, ultrasonication, and biodiesel production.
- Analyzed experimental data, prepared research documentation, and provided laboratory instruments required to support ongoing research activities.

Achievement: Contributed to the successful execution of a multidisciplinary research project by supporting catalyst synthesis, laboratory experiments, and analytical data collection.

Undergraduate Research Project

October 2025-March 2026

Study on the Removal of Non-Oil Components Using Ultrasonication and Rice Husk Carbosil Adsorption in the Processing of Crude Palm Oil into Biodiesel

- Conducted research on the purification of crude palm oil (CPO) using ultrasonication and rice husk-derived carbosil adsorption.
- Synthesized zeolite-A from rice husk silica and evaluated its catalytic performance for biodiesel production.
- Characterized adsorbents and catalysts using XRD, SEM, BET, PSA, and analyzed biodiesel products using GC-MS.
- Performed laboratory analyses including, proximate analysis, density, viscosity, and acid value testing.
- Analyzed experimental data and prepared scientific reports in accordance with academic research standards.

Achievement: Successfully completed an end-to-end biodiesel research project involving adsorbent synthesis, catalyst preparation, instrumental characterization (XRD, SEM, BET, PSA, GC-MS), and laboratory data analysis.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Kimia Universitas Lampung

Staff of Independent Business Department

January 2023 – December 2024

- Supported the planning and implementation of organizational business and entrepreneurial initiatives to generate revenue and fund organizational activities.
- Assisted in managing inventory, product sales, transactions, and operational requirements to ensure efficient business operations.
- Collaborated with team members in developing promotional and sales strategies to support business growth and revenue generation.

Bazaar Coordination of Chemistry EXPO XXVII

May 2023-October 2023

- Planned and coordinated bazaar operations, including task delegation, product management, equipment preparation, and operational requirements.
- Supervised team members and coordinated with relevant parties to ensure smooth and efficient execution of bazaar activities.
- Monitored operational needs, addressed on-site issues, and ensured activities were carried out according to the established schedule.

Event Division of Chemistry EXPO XXVIII

May 2024-October 2024

- Conceptualized and developed the official event apparel design, ensuring alignment with the event's theme and visual identity.
- Collaborated with the organizing team throughout the design refinement process, incorporating feedback and maintaining design consistency.
- Contributed to strengthening the event's visual identity through an apparel concept that represented the spirit and character of the Chemistry student community.

CERTIFICATIONS & TRAINING

Quality Control in Food Industry | Makin Ahli | May 2024

Quality Assurance in Food Industry | Makin Ahli | May 2024

Laboratory Assistant Physical Chemistry Laboratory I | Department of Chemistry | June 2026

Laboratory Assistant Physical Chemistry Laboratory II | Department of Chemistry | December 2026

English Skill Improvement | Chemistry Student Association, University Lampung | Juni 2023

Public Speaking Training | Chemistry Student Association, University Lampung | April 2023

Chem in Design (CID) | Chemistry Student Association, University Lampung | April 2023

Skills, Achievements, and Other Experience

Language: Bahasa Indonesia, English (moderate)

Software: Microsoft Office (Word, Excel, Powerpoint), Canva, Origin