

NAOMI AZALIA

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SUMMARY

Chemistry graduate from **Institut Teknologi Bandung** (ITB) with hands-on laboratory experience applying analytical methods to routine testing of materials. Trained in **SNI ISO/IEC 17025:2017** quality management systems and **EURACHEM/CITAC CG4** measurement uncertainty, with experience in method validation and familiarity with instrument calibration principles supporting reliable analytical results. Fluent in English and experienced operating **GC, HPLC, FTIR, UV-Vis, AAS, and Viscometer**. Adaptable, detail-oriented, and committed to accurate, timely quality-related work, including proper housekeeping and waste handling.

EDUCATION

Bachelor of Science (B.Sc.) in Chemistry

2022 – 2026

Institut Teknologi Bandung – Bandung, Indonesia

- Thesis: Synthesis of Ca-Alginate Encapsulated CaO Nanoparticles–Black Mulberry Leaves Extract as Methylene Blue Adsorbent.
- Current GPA: 3.39 / 4.00

High School Diploma (Science Major)

2019 – 2022

SMAN 1 Bandung – Bandung, Indonesia

- Honors: Silver Medalist, English Olympiad; Quarterfinalist, ITB Chemistry Olympiad. Organization: Student Council (OSIS).

WORK EXPERIENCES

Undergraduate Researcher

Sep 2025 – June 2026

Analytical Lab, Institut Teknologi Bandung

- Synthesized alginate-based polymer composites as an encapsulation matrix for CaO nanoparticles
- Developed and validated an analytical method for adsorption testing, then optimized process parameters to increase adsorption capacity (q_i) from 1.035 mg/g to 2.493 mg/g (+141%)
- Documented and processed experimental results using OriginPro for technical reporting and thesis defense, supporting accurate, traceable record-keeping of test data.

Intern, Clinical Laboratory Analyst (Analisis Laboratorium Klinik)

Jun 2026 – Jul 2026

RS Paru Jember – Jember, Indonesia

- Performed microbiological testing of sputum samples following standard clinical laboratory procedures, supporting accurate and timely diagnostic reporting
- Applied proper sample handling, laboratory hygiene, and PPE protocols in a clinical testing environment

Fundamentals of Analytical Chemistry Laboratory Assistant

June 2025 – Dec 2025

Analytical Chemistry Lab, Institut Teknologi Bandung

- Supervised and conducted complexometric titration experiments to determine calcium carbonate (CaCO_3) content in eggshell samples
- Prepared and delivered presentation materials for theoretical sessions and assessed the performance of 105 chemistry students, reinforcing clear technical documentation and communication.

Structure and Function of Biomolecules Laboratory Assistant

Jan 2025 – May 2025

Biochemistry Lab, Institut Teknologi Bandung

- Supervised and conducted quantitative experiments determining sugar concentration using a Polarimeter and the DNS Method, and modeled α -amylase using Swiss-Model software, following structured experimental protocols.

ORGANIZATIONAL EXPERIENCE

Vice Head of External Affairs Department

June 2025 – April 2026

HMK "AMISCA" ITB

- Led collaborations with external stakeholders (student associations, lecturers, alumni, sponsors) and designed OKRs for departmental programs, including evaluation of program implementation and sustainability.

TRAINING & CERTIFICATIONS

- **SNI ISO/IEC 17025:2017** Awareness Training & Validation and Uncertainty Measurement | ITB | 2025
- Evaluation of Uncertainty Estimation Based on **EURACHEM/CITAC CG4** | ITB | 2025

LABORATORY SKILLS

- Experienced in conducting quality & quantitative testing: **Titration, Extraction, Electrochemistry**.
- Experienced in operating instrumental instruments: **Gas Chromatography (GC), High-Performance Liquid Chromatography (HPLC), UV-Vis, FTIR, AAS, pH meter, polarimeter, Viscometer, and Bomb Calorimeter**.
- Trained in laboratory operations with adherence to safety procedures and B3 waste handling.
- Skilled in data processing, analysis, and scientific reporting using OriginLab, Excel, and Word.

ACHIEVEMENTS

- 5th Runner-Up, Paper Competition, IPB University

June 2024

Paper title: Paper Industry Waste Processing into Lime Mud & Modified Lignosulfonate as Cement Alternatives.