

Elmira Syifa Firliany Zahra

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SUMMARY

Bachelor of Pharmacy at Institut Teknologi Bandung with a strong foundation in pharmacognosy, quality assurance, and analytical development. Proven track record in public speaking, financial management, and administrative operations. Analytical and adaptive professional with a focus on quality control and the ability to thrive in dynamic, high-pressure environments. Highly skilled in time management and effective in both independent and collaborative team settings

Interest: Pharmacy, Science, Organization

EDUCATION

Institut Teknologi Bandung (ITB)

August, 2022 – July, 2026

Bachelor of Pharmacy, School of Pharmacy

- **Undergraduate Thesis:** *Effectiveness Study of Cucumber (*Cucumis sativus*) as an Alternative Antihypertensive Agent via Angiotensin Receptor Blocker (ARB) Mechanism.*
- Developed a night cream formulation utilizing Jojoba oil as the key ingredient, aimed at supporting skin brightening and nourishment.
- Experienced as a Teaching Assistant for Computational Thinking and Laboratory Assistant for Fundamentals of Natural Product Medicine

WORK EXPERIENCES

IML Research and Testing

July, 2026 - Present

Research Assistant

- Conduct analytical testing and method development using HPLC, GC, UV-Vis Spectrophotometry, and FTIR, including sample preparation, instrument operation, quantitative analysis, and data interpretation.
- Perform analytical method development, optimization, verification, and adaptation based on scientific literature, pharmacopoeial standards, SOPs, and applicable regulatory requirements.
- Conduct microbiological testing, including antimicrobial activity testing, microbial enumeration, microbial limit testing, microbial contamination testing, and microbiological quality assessment, as well as culture media preparation and aseptic microbial handling.
- Perform microbiological laboratory activities, including microbial culture and maintenance, inoculum preparation, sterilization and aseptic techniques, microbiological observations, result interpretation, and preparation of microbiology test reports and technical documentation in accordance with GLP, GMP, and laboratory procedures.

Institut Teknologi Bandung

August - December, 2025

Teaching Assistant for Computational Thinking Program

- Provided instructional support to 50+ students by teaching fundamental programming concepts using Scratch, enhancing students' understanding of computational thinking and problem-solving skills.
- Guided students in developing block-based programming projects by applying logic flow, loops, conditionals, and variables to strengthen programming proficiency and project completion, resulting in the successful completion of 2 team-based projects involving 50+ students.
- Assessed student assignments using standardized grading rubrics to ensure fair evaluation and provide constructive feedback for continuous learning improvement, evaluating 8+ assignments across 2 project cycles with consistent grading standards.

Institut Teknologi Bandung

February - June, 2025

Laboratory Assistant for Fundamentals of Natural Product Medicine Program

- Facilitated 10 pharmacognosy laboratory modules by mentoring students in laboratory techniques and GLP-compliant practices to ensure accurate and standardized experimental procedures.
- Supervised the analysis of loss on drying (LOD) of crude drugs to assess raw material quality, guiding around 15+ students through herbal quality control methods and achieving 100% module completion within scheduled timelines.
- Mentored students in conducting phytochemical screening using standard qualitative assays, successfully identifying major active constituent classes across 10+ medicinal plant samples with standardized and reproducible results.
- Guided the determination of water- and ethanol-soluble extractive values across 10 laboratory sessions, enabling students to evaluate the composition and quality characteristics of crude drugs with consistent accuracy.

INTERN EXPERIENCES

Edelweiss Hospital Pharmacist Intern

August - September, 2025

- Dispensed medications in accordance with physicians' prescriptions and pharmaceutical service standards, serving 40+ patients per day while maintaining 100% dispensing accuracy and full regulatory compliance.
- Conducted prescription reviews by assessing drug dosing, indications, potential interactions, and adverse effects, reviewing 25+ prescriptions per day and identifying drug-related problems to optimize medication safety..
- Provided patient education and medication counseling to 20+ patients per day, explaining proper drug use, dosage schedules, side effects, and adherence strategies to support safe and effective therapy outcomes.

PT. Kimia Farma Plant Banjaran Quality Assurance Intern

July - August, 2025

- Conducted Product Quality Reviews (PQR) by analyzing quality and production data from 14 manufacturing batches using Excel and GMP documentation standards, identifying quality trends for the 2024–2025 period.
- Prepared a comprehensive Quality Assessment Report for a production batch by evaluating critical quality attributes (CQAs), batch performance, and manufacturing records to support batch disposition and QA activities.
- Applied GMP principles in quality data analysis and technical documentation, maintaining 100% documentation compliance and supporting continuous quality improvement initiatives across the production cycle.

ORGANIZATION

Kabinet Keluarga Mahasiswa (KM) ITB Acting Vice Secretary General

June - August, 2025

- Represented the Secretary General in executive decision-making and organizational coordination during their absence, ensuring continuity of cabinet operations and strategic initiatives.
- Managed the administrative system of the KM ITB Cabinet by standardizing documentation and governance processes, processing and managing 100+ official letters to maintain organized records and operational compliance.
- Monitored and evaluated work programs and accountability reports for approximately 50 cabinet staff members by tracking key performance indicators and implementation progress to strengthen organizational accountability and strategic target achievement

Kabinet Keluarga Mahasiswa (KM) ITB Minister of Finance

June, 2024 - March, 2025

- Managed organizational revenue exceeding IDR 500 million and controlled expenditures above IDR 400 million by implementing structured budget management and financial control systems to ensure accountability and operational efficiency.
- Developed strategic budget planning and resource allocation frameworks supporting 8 ministerial clusters and 100+ organizational programs to promote financial sustainability and optimize utilization of KM ITB's financial resources.
- Oversaw internal audit activities and financial review processes, achieving 100% audit compliance while reviewing 500+ financial transactions to ensure full transparency, accountability, and good organizational governance.

ACHIEVEMENTS

- **P2M2 Award - Kemdiktisaintek** 2025
Selected as 1 of 3 nationally recognized business proposal ideas and represented ITB at KMI Expo held at Universitas Tidar, Magelang.
- **Highschool Awards** 2022
Graduated as the Best Science (MIPA) Student of 2022 at SMAN 24 Bandung.

ADDITIONAL INFORMATION

TECHNICAL SKILLS

PROFESSIONAL SKILLS

- Good Laboratory Practices (GLP)
- Microsoft Excel and Data Visualization)
- Ms. Office (Ms. Word, Ms. Excel, Ms. Powerpoint)
- Google (Google Docs, Google Spreadsheets, Google Slides)
- Leadership
- Stakeholder Management
- Negotiation
- Public Speaking and Presentation
- Strategic Planning
- Problem Solving
- Time Management

LANGUAGE SKILLS

- Bahasa Indonesia (Native Proficiency)
- English (Proficient User)