



MUHAMMAD LUTHFI SHIDIK

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SUMMARY

As a dedicated pharmacist with a degree from the Bandung Institute of Technology, I bring a deep sense of responsibility, adaptability, and a mindful approach to my work. I am quick to adjust to new challenges, motivated by a commitment to ongoing learning, and excel in fast-paced settings. My enthusiasm focuses on product research and development, addressing healthcare challenges, and making significant contributions to the industry.

EDUCATION

Magister of Pharmacy (Pharmaceutics Department), Bandung Institute of Technology

- August 2023 – July 2025. GPA: 3.95/4.00; achieved Summa Cum Laude; Published Paper in Q3 & Sinta 2, President of the Pharmacy Pasca Student Association.
- Final project: "Synthesis and Characterization of Cocrystal Ticagrelor with 3.4 Dihydroxybenzoic Acid Coformer."

Bachelor of Pharmacy (Pharmaceutical Science and Technology), Bandung Institute of Technology

- August 2019 – July 2023. GPA: 3.63/4.00 (158 credits, achieved Cum Laude)
- Final project: "Development of Chitosan-Encapsulated Kaffir Lime Essential Oil Nanoemulsion as Bentonite AgNPs Adhesivity Enhancement on a Fibrous Membrane Surface for Dry Ablution Application."

PROFESSIONAL EXPERIENCES

Analytical Scientist at DLBS, PT. DEXA MEDICA

Feb 2026 - Present

- Conducted analytical method development, verification, and transfer of 9 analytical methods for herbal medicines and natural product-based pharmaceutical formulations.

Jr. Analytical Development Scientist at Kalbe Farma, Tbk

Aug 2025 – Feb 2026

- Developed, verified, and transferred analytical methods for raw materials and finished products—conducting comprehensive testing of trial, optimization, degradation, and stability samples—while contributing to project planning, data evaluation, and preparation of complete analytical documentation.
- Supported 8 analytical projects involving raw material qualification, formulation performance testing, stability study evaluation, and scale-up verification

Chemical Drug Formulation and Analysis Intern at Daewoong Pharmaceutical Indonesia **Feb – July 2025**

- Led formulation development for two-layer and extended-release tablets, resolving major analytical challenges (assay, CU, impurities, dissolution) and successfully delivering high-quality, development-ready formulations with enhanced process robustness.
- Leveraged strong hands-on expertise in tablet processing, coating, tablet evaluation, and advanced HPLC analysis to consistently produce reliable, scalable, and R&D-ready prototypes.

Assistant Researcher (Rispro LPDP), School of Pharmacy ITB**April 2023 – April 2024**

- Coordinated research activities and monthly reporting while conducting milling-process optimization to achieve ~50 nm particle size using planetary ball milling, supported by comprehensive physicochemical characterization (XRD, SEM, TG-DTA, solubility, UV-Vis, PSA, and phytochemical analysis).

Laboratory Assistant, School of Pharmacy ITB**August 2021 – August 2024**

- Practicum: Solid, Semisolid, Microbiology Pharmacy.
- My duties include assisting students during practical sessions, evaluating their journals and pre-practicum reports, leading discussions, and providing assessments.
- Skills: I gained experience in handling bacteria, working in both sterile and non-sterile environments, preparing biological samples, evaluating pharmaceutical preparations (such as tablets, infusions, suspensions, and emulsions), using HPLC, operating a UV-Vis spectrophotometer, and many other tasks.

Intern at Research Center for Nanoscience and Nanotechnology (PPNN) ITB**June – August 2023**

- Optimization of **chitosan nanoemulsion formula** in bioactive encapsulation, optimization of Ag nanoparticle (AgNP) synthesis using herbal reductor, and AgNP immobilization in bentonite.

PROJECT

Community Service School of Pharmacy in Sumedang, West Java**September 2023**

- Planned and executed the DAGUSIBU education program for health kaders (50 participants) and free medical check-ups for the community (100+ participants)

Community Service School of Pharmacy on Kangean Island, Sumenep, East Java**June 2023**

- Planned and executed a family resilience education program to prevent the abuse of NAPZA (100 participants).

Community Service School of Pharmacy in Jombang, East Java**August 2023**

- Planned and executed a stunting education activity for 50 students of SMPN 1 Sumobito and 30 pregnant or breastfeeding mothers in Carang Rejo Village, Jombang Regency, East Java.

MBKM Socio-Entrepreneurship**August – December 2022**

- Planned and executed a social project in Tanjungsari, Tasikmalaya, West Java. My role as a group leader and managing 14 members. Our program: Stunting Awareness Campaign (50 participants), Herbal Medicine Promotion (50 participants), & Business Incubator (30 participants).

ITB Community Service**April 2021 – March 2022**

- Social community project in Ciroyom, Tasikmalaya, in collaboration with UGM and UB students. My role as a group leader and managing 17 members.
- Achievement: 20 residents received intensive business development assistance and 2 water reservoirs.

HONOR AND AWARDS

Awardee of Beasiswa Unggulan Scholarship**August 2024 – June 2024****Best Pitching and Participants in Event International Leadership in Action Summit (ILiAS) 2024**

- Selected as a participant from 1000s of applicants from all students in Indonesia
- Best Innovation of the Health Category in ILiAS 2024 program

Awardee of Ganesha Talent Assistantship 50**August 2023 – June 2024**

Ganesha Talent Assistantship is a scholarship program that provides fully or partially waived tuition fees for graduate students with contributions as assistants in ITB activities

Awardee of PERI Scholarship from Prodia Laboratorium**August 2023 – June 2025**

PERI is an educational scholarship program offered by Prodia Institute, providing living expenses to 10 selected students across Indonesia.

Best Mentor at Frosh Project Provided by Peace Generation Indonesia 2022

Frosh is an interactive mentoring event offered by Peace Generation Indonesia to enhance socio-emotional skills, including collaboration, emotional management, critical thinking, and creative thinking.

Awardee of Chong Kun Dang Scholarship 2020

The CKD Kochon Foundation, one of the leading scholarship foundations in Korea, was established in 1973 by Kochon Chong-Kun Lee, a founder of Chong Kun Dang Pharmaceutical Corp.

ORGANIZATION EXPERIENCES

HMPF ITB (ITB Pharmacy Pasca Student Association)**President of HMPF****July 2024-June 2025**

- Responsible for all the divisions in the board of members

PLT President of HMPF**March – July 2024**

- Generally, my role as the PLT chairperson involves coordinating 32 members to carry out their job descriptions according to their divisions.
- **Achievements:** Planned and executed a national pharmacy seminar with 280 participants, where my role was as the general coordinator and head of the logistics division (coordinated 5 members)

Staff of Internal Division**August 2023 – July 2024**

- Organized **sports series** activities for member bonding

HMF ‘Ars Praeparandi’ ITB (ITB Pharmacy Student Association)**Staff of Kader Division****October 2020 – July 2022**

- HMF is an association that oversees undergraduate pharmacy students.
- **Achievements:**
 1. Project Leader: responsible for the HMF CatalystxTapum4 2022
 2. Head of Operations at PLOT 2021: Responsible for Zoom operator, handled 5 members operationally.
 3. Mentor at AKSARA 2021: Assisted and mentored 10 prospective new members of HMF
 4. Head of Election at ARS election: I organized and coordinated 6 members of the electoral division

SKILLS

Language:

English (Full Professional Proficiency), Bahasa Indonesia (Native Proficiency)

Software:

Microsoft Office, Google Suite (Docs, Sheets, Slides), Canva

Others:

Soft skills (Leadership, Communication, Adaptability, Fast Learner, Analytical and Critical Thinking)