

Nur Ahmad Arhamul Ghony

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PROFESSIONAL EXPERIENCE

PT Kalbe Farma

Oct - Nov 2025

R&D Pilot Plant Formulation Intern

Cikarang, West Java

- Analyzed end-to-end NPI (New Product Development) workflows within a pharmaceutical pilot plant setting, ensuring seamless scale-up and tech transfer execution.
- Evaluated Critical Process Parameters (CPPs), material and machine handling across diverse dosage forms, including solids (wet/dry granulation and direct compression tablets, film-coated tablets, capsules), semisolids (creams and gels), and liquids (suspensions).
- Analyzed and evaluated process troubleshooting and machine handling analysis to resolve manufacturing deviations, optimize yield, and minimize downtime across various production scales.
- Conducted Failure Mode and Effects Analysis (FMEA) to assess operational risks for newly introduced production equipment.
- Drafted and executed qualification documentation, including Installation & Operational Qualification (IOQ) for a moisture analyzer and Design Qualification (DQ) for a cube mixer.
- Monitored Class E cleanroom facilities (GMP/CPOB guidelines), gaining comprehensive knowledge of architectural design, construction materials, airborne particulate limits, and HVAC parameter monitoring.
- Performed balance and scale verification protocols to ensure high-precision analytical and production weighing accuracy.
- Designed, documented, and automated an internal budget reminder system integrating Google Sheets, Google Calendar, and email notifications; authored complete system documentation covering system architecture, operating procedures, and troubleshooting guidelines while enabling automated manager notifications and buyer purchase confirmations.

Laboratory Assistant

Feb 2024 - Jun 2025

Pharmaceutical Technology: Liquid and Semi-solid Pharmaceutical Dosage Forms

Malang, East Java

- Assisted in practical sessions on formulation, manufacturing, and quality control of some liquid and semi-solid pharmaceutical dosage form, including ointment, cream, gel, syrup, suspension, emulsion, and suppository.
- Mentored students in project-based assignments to design and prepare semisolid dosage products, including QbD, QTPP, CQA, evaluation, and drug packaging.

Laboratory Assistant

Aug - Dec 2024

Pharmaceutical Technology: Solid Pharmaceutical Dosage Forms

Malang, East Java

- Assisted in practical sessions on formulation, manufacturing, and quality control of some solid pharmaceutical dosage form, including dry granulation tablets, wet granulation tablets, direct compression tablets, and capsules.
- Mentored students in project-based assignments to design and prepare solid dosage products, including QbD, QTPP, CQA, evaluation, and drug packaging.

EDUCATION

Brawijaya University

Aug 2025 - Now

Pharmacist Professional Degree. Current GPA: 4.00

Malang, East Java

Relevant Coursework: Pharmacist Intern at PT Kalbe Farma, Research and Development - Pilot Plant Formulation.

Brawijaya University

Jul 2021 - Jul 2025

Bachelor of Pharmacy. GPA: 3.57

Malang, East Java

Relevant coursework: Pharmaceutical Technology: Liquid and Semi-solid Pharmaceutical Dosage Forms, Pharmaceutical Technology: Solid Pharmaceutical Dosage Forms, Drug Delivery.

RESEARCH

Final Thesis – Transfersomal Gel

Jul 2024 - May 2025

Title: Optimization of Galangal Extract Transfersomal Gel using HPMC E15 and Carbopol 940 as Gelling Agents via Simplex Lattice Design.

Repository: <https://repository.ub.ac.id/id/eprint/244335/>

- Applied a transdermal delivery system utilizing transfersome nanoparticles loaded with an Indonesian native herbal active, galangal extract (*Kaempferia galanga* L.).
- Formulated and optimized a transfersomal gel containing galangal extract (*Kaempferia galanga* L.) with varying ratios of hydroxypropyl methylcellulose (HPMC) E15 and Carbopol 940 as gelling agents.
- Utilized Design of Experiments (DoE) via Simplex Lattice Design to evaluate the synergistic effect of polymer combinations between HPMC E15 and Carbopol 940 across 8 experimental runs using Design-Expert ® V.13.
- Evaluated critical quality attributes in physical parameters, including viscosity, stickiness, and spreadability to find the optimal polymer ratio.
- Developed mathematical models linking polymer ratio variations to target physical characteristics, successfully determining the optimal gelling agent ratio for enhanced formulation quality.

PKM-RE – Mucoadhesive Buccal Patch

Mar – Nov 2023

Title: Innovation of Mucoadhesive Buccal Patch Contain Chayote Extract (Sechium Edule) as an Antidiabetic Medicine

- Received Kemenristekdikti funding in Program Kreativitas Mahasiswa for developing a chayote extract (*Sechium edule*) antidiabetic buccal patch.
- Applied a dual-layer matrix system comprising a mucoadhesive layer (Gelatin and CMC-Na combination) and a protective backing membrane (Chitosan and PVA).
- Optimized polymer matrix ratios and evaluated extract loading against key physical attributes, specifically mechanical strength (tensile properties) of the backing layer and swelling capacity.

ORGANIZATION EXPERIENCE

Lembaga Pers Mahasiswa (LPM) Diagnostika FK UB

Jan – Des 2024

Chief Executive

Malang, East Java

- Lead and supervised the student press organization at the Faculty of Medicine, Brawijaya University with 3 departments, 6 big programs, and 30+ members and volunteers.
- Coordinated the editorial team to produce student journalistic content, including medical content, socio-politics related-medical content, and so on.
- Initiated the rebranding of the organization to align with current press conditions - adaptation with social media and digital platform.
- Collaborated with the dean's office to write and launch history book of the Faculty of Medicine, Brawijaya University.

Badan Eksekutif Mahasiswa FK UB

Mar 2022 – Des 2023

Ministry of External Affairs

Malang, East Java

- Managed key programs including national and international external visitations, partnership development, and student delegation.
- Lead an offline national external visitation with 60+ participants for the first time after Covid-19 pandemic.
- Established and strengthen collaborations with external institutions, student organizations, and international partners.

Pengabdian Masyarakat FK-Fikes UB 2023

Sep 2022 – Sep 2023

Steering Committee

Malang, East Java

- Supervised and mentored the Organizing Committee (OC) in operational execution and stakeholder management, successfully catering to and mobilizing a scale of 500+ community participants.
- Formulated the strategic concept and core framework for a joint-faculty (FK and Fikes UB) community service initiative in Desa Banjarejo, Kecamatan Pagelaran, Kabupaten Malang.
- Designed and implemented Interprofessional Education (IPE) and Interprofessional Collaboration (IPC) models with the involvement of 5 distinct healthcare programs and professions (Medicine (Doctor), Pharmacy, Nursing, Midwifery, and Nutrition) to deliver comprehensive free medical treatments (Pengobatan Gratis) and health services.
- Designed and optimized logistical blueprints, included complex mobilization, accommodation, and transportation management to ensure safety and operational efficiency throughout the 4-day, 3-night field deployment.

ACHIEVEMENT

Olimpiade Farmasi Indonesia (OFI) XI 2024

Nov 2024

1st Place - Social and Administrative Pharmacy Category

Padang, West Sumatra

- Won OFI XI 2024 competition, contributing 210 points to lead the University of Brawijaya's pharmacy team (first-time participation among 47 universities and 149 students), held at the University of Andalas, Padang, West Sumatra.
- Demonstrated statistical analysis skills, pharmaceutical problem-solving in social contexts, and evaluation of pharmaceutical policies and regulations in Indonesia, divided into three rounds: multiple-choice questions (MCQ), essays, case studies, simulations, and reviews of international journal articles.
- Secured top position in the Social & Administrative Pharmacy field, alongside teammates winning Clinical Pharmacy, resulting in an overall championship awarded by APTFI.

Pharmanova ITB 2024

Oct 2024

3rd Place, Pharmaceutical Packaging Design Competition

- Awarded third place in a national competition organized by HMF 'Ars Praeparandi' ITB, focusing on designing innovative, informative, and visually attractive primary and secondary pharmaceutical packaging for eczema corticosteroid cream.

Creopsy x Signa 2024

Jun 2024

2nd Place, Pharmaceutical Packaging Design Competition

- Achieved second place in a national competition challenging health science students to design innovative, informative, and visually appealing secondary pharmaceutical packaging for antidepressant therapy.

IPLF Pramunas XIX 2022

Jan 2022

3rd Place, Pharmaceutical Packaging Design Competition

- Awarded third place in a national-level student competition organized by the Indonesian Pharmaceutical Leadership Forum and Pre-National Congress (ISMAFARSI).

OTHER

- **Technical Skills:** Canva, Photoshop (beginner level), Premiere Pro (Beginner level) Microsoft Office Operation, and Activity Planning.
- **Soft Skills:** Leadership, Problem-solving, Planning, Man Management, Time Management, and Communication.
- **Languages:** Java (native), Indonesian (native), English (Beginner level)
- **Interest:** Pharmaceutics, Pharmaceutical Formulation, Pharmaceutical Manufacturing, Nanoparticles, Pharmaceutical Technology; Pharmacy, Medicine, and Medical Regulations.