

Fayyaza Nadia Hanun, S.Farm

Analytical Development | Pharmaceuticals R&D

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Pharmacy graduate (GPA 3.54/4.00, Diponegoro University) with hands-on experience in **analytical testing, method performance evaluation**, and laboratory-scale product development through an international research internship, undergraduate thesis, and laboratory assistant roles. Experienced with **HPLC, UV-Vis spectrophotometry, dissolution and comparative dissolution testing**, and Franz diffusion, including UV-Vis method performance evaluation through specificity, linearity, LOD, and LOQ testing. Familiar with GMP/CPOB, GLP, GDocP, QbD, SOP-based laboratory work, and scientific documentation. Interested in supporting analytical method development, validation, method transfer, stability testing, and pharmaceutical product development.

CORE COMPETENCIES

Analytical Testing: HPLC, UV-Vis spectrophotometry, dissolution and comparative dissolution testing, Franz diffusion, sample preparation, extraction, drug-content and release analysis

Method Performance Evaluation: Specificity, linearity, LOD, LOQ, analytical data interpretation, scientific literature review, familiar with method-development and validation principles

Laboratory Instruments: HPLC, UV-Vis spectrophotometer, Dissolution Tester, pH meter, centrifuge

Quality & Documentation: GMP/CPOB, GLP, GDocP, SOP compliance, experimental records, QbD

Data Analysis: Microsoft Office, Google Workspace, GraphPad Prism, IBM SPSS, ImageJ

Languages: Indonesian (native), English (CEFR B2 - British Council)

WORK EXPERIENCES & INTERNSHIP

International Research Internship Mar - May 2026
Chang Gung University of Science and Technology, Taiwan

- Processed Oncidium root samples through extraction, purification, and HPLC analysis while keeping sample-preparation records and laboratory documentation under GLP principles.
- Performed seven antioxidant and anti-inflammatory assays including DPPH, ABTS, superoxide anion, AAPH, luminol chemiluminescence, LDH release, and elastase using primary human neutrophils and microplate-based methods.
- Operated a centrifuge and supporting analytical equipment for sample preparation and testing, processed results using GraphPad Prism, and prepared structured weekly research reports.
- Collaborated with a multidisciplinary international research team, followed SOPs, and communicated findings in English.

Laboratory Assistant Aug 2024 - Aug 2025
Universitas Diponegoro, Semarang, Indonesia

- Coordinated laboratory sessions for 20+ students per class across Biopharmaceutics and Pharmacokinetics, Solid Dosage Technology, and Pharmacology.
- Prepared experimental materials and reagents, verified instrument readiness, and maintained analytical records for UV-Vis quantification of dissolution media and Franz diffusion samples in line with SOPs and laboratory-safety requirements.
- Supported laboratory scale tablet, capsule, and granule formulation, and evaluated 50+ tablets across two batches using hardness, friability, disintegration, and dissolution testing.
- Guided dissolution, comparative dissolution, and Franz diffusion experiments while managing trial materials, work-area organization, and experimental documentation.

RESEARCH & ANALYTICAL DEVELOPMENT PROJECTS

Formulation and Evaluation of Metformin Microneedle Film Preparations Using a Combination of PVP and Ethyl Cellulose Polymers | Undergraduate Thesis | 2025 - 2026

- Designed and optimized PVP and Ethyl Cellulose (EC) microneedle films through 5+ iterative formulation trials, evaluating thickness, folding endurance, moisture content, and drug content.
- Evaluated UV-Vis analytical method performance through specificity, linearity, LOD, and LOQ testing; built calibration curves, quantified metformin content at 100-102%, and measured 71.15% cumulative drug release within 8 hours.
- Conducted Franz diffusion and ex vivo histology studies, evaluated morphology using SEM imaging, and analyzed experimental data with IBM SPSS and ImageJ, supported by structured technical documentation.

Immediate-Release Tablet Development Using Quality by Design | Academic Project | 2025

- Designed an immediate-release acarbose tablet development strategy covering preformulation, formulation design, manufacturing processes, analytical and quality controls, and packaging.
- Established the Quality Target Product Profile (QTPP) and identified Critical Quality Attributes (CQA), Critical Material Attributes (CMA), and Critical Process Parameters (CPP).

Pharmaceutical Manufacturing Process Design | Academic Project | 2025

- Designed a pharmaceutical manufacturing workflow covering blending, granulation, drying, compression, and packaging in accordance with GMP/CPOB principles.
- Identified Critical Process Parameters (CPP) and In-Process Controls (IPC) across each manufacturing stage to support process consistency, and GDocP aligned documentation.

Hydrocortisone Cream Formulation | Formulation Lead | 2026

- Developed and optimized a hydrocortisone cream formula using a QbD approach aligned with ICH Q8(R2), identifying CQA and CMA, defining emulsification parameters of 500-800 rpm, and designing a USP-based Preservative Efficacy Testing plan.

10% Niacinamide Lotion & Handmade Natural Soap | Project Officer | 2024

- Performed laboratory-scale mixing and filling for more than 30 lotion units, evaluating organoleptic properties, pH, spreadability, adhesion, and packaging suitability while coordinating raw-material availability and product-development documentation.

EDUCATION

Universitas Diponegoro - Semarang, Indonesia

Aug 2022 - June 2026

Bachelor of Pharmacy | GPA 3.54/4.00

Relevant Coursework: Process and Analytical Validation (A), Process Technology and Analysis (A), Drug Stability, Analytical Method Development, Solid Dosage Technology, Liquid and Semisolid Dosage Technology, Biopharmaceutics and Pharmacokinetics, GMP/CPOB.

HONOUR & AWARDS

- 3rd Place - Formula for Change, International Pharmaceutical Students Federation (2026)
- Gold Medal and Grand Award - International Research Project Olympiad (2025)
- Silver Medal and Special Award - Seoul International Invention Fair (2024)
- Silver Medal - Japan Design Idea and Invention Expo (2024)

ADDITIONAL INFORMATION

Available for full-time, on-site, and shift-based work | Open to relocate | Available to join immediately