



DAWIYATUL ISTIFAIYAH

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PROFILE

Chemistry graduate with hands-on laboratory experience in analytical chemistry, with focus on laboratory analysis. Specialized in sample preparation, instrumentation, and gravimetric analysis. Expertise includes operation and understanding of material testing using instruments (HPLC, GC-MS, FTIR and UV-Vis) and application of basic chemometrics for data analysis and method validation. Knowledgeable in laboratory safety protocols and the principles of GLP and ISO 17025. Disciplined, detail-oriented, collaborative team member, committed to continuously developing technical competency in line with analytic requirements.

EDUCATION

Institute of Technology Sepuluh Nopember | SI Chemistry

July 2022- August 2026

- GPA : 3.43 / 4
- ACHIEVEMENT :
 - Research Teams Funded Under the 2024 PKM, Kemendikbudristek

WORK EXPERIENCE

New Product Development – Internship | PT. Rembaka

January 2026 - March 2026

- Analyzed trending active ingredients, including mechanism of action, function, and formulation for 10+ active ingredients to identify skincare and makeup product development opportunities.
- Conducted competitive brand mapping and gap analysis on 30+ competitor products to identify market opportunities and formulate unique selling propositions (USP).
- Translated scientific findings on active ingredients, mechanism of action, and formulation into PowerPoint in the form of simplified information for the marketing team.

Fundamental Chemistry Laboratory Assitant – Part Time | Chemistry Department

July 2025 - December 2025

- Mentored 100+ practicum participants on pH measurement techniques, achieving 80% comprehension rate based on written evaluation results.
- Coordinated laboratory safety procedures in accordance with established protocols GLP standards.
- Disciplined approach to following SOPs and maintaining quality standards consistently.

Scientific Services – Internship | PT. Filtrona Tbk Indonesia

August 2025 – August 2025

- Conducted periodic micropipette accuracy and precision verification using gravimetric methods within established tolerance ranges.
- Operated UHPLC-FLD and GC-MS instruments to perform qualitative and quantitative analysis, applied standardized and internal standard (ISTD) methods to determine phenolic compounds and BAP in tobacco sample.
- Performed routine instrument UHPLC-FLD and GC-MS maintenance including pre-running conditioning protocols and column maintenance procedures to ensure optimal instrument performance, data consistency across analytical batches, and minimizing column degradation and equipment downtime.
- Validated analytical method performance against regulatory standards using 10 tobacco samples, achieving recovery rates of 95–105% and RSD <2%, demonstrating method accuracy and reliability per established acceptance criteria.
- Reviewed and analyzed out of specification results and measurements outside LOD/LOQ limits, identifying root causes.

Laboratory Analyst – Internship | PPSDM Migas

January 2025 – January 2025

- Conduct testing of the physical properties of crude oil using ASTM methods D445, D1298, D86, and D287.
- Calculate and analyze measurement uncertainties for each test result, with an uncertainty of $\leq 2\%$ (coverage factor $k = 2$).
- Conduct testing in accordance with ASTM standards, from sample storage and preparation, through analytical data collection, to validation and reporting.

ORGANIZATIONAL & COMMITTEE EXPERIENCE

ITS Chemistry Students' Association – Social Development | Secretary and Treasurer

March 2024 – December 2025

- Prepared and managed 3+ activity proposals with financial records using Excel, ensuring budget accuracy (0% variance)
- Coordinated 5+ social projects per year, receiving an 80% satisfaction rating from 100+ participants
- Achieved 100% of the department's KPI targets through collaborative efforts among staff

Ini Lho ITS! Forda Jombang – Public Relations | Staff

November 2023 – January 2024

- Managed relationships with 3 partner schools and coordinated outreach activities for 200+ participants
- Conducted negotiations regarding regulations, technical aspects, and activity implementation, resulting in the timely issuance of permits
- Led the implementation of 3 outreach activities with a team of 15+ organizers, ensuring all activities were completed on schedule

SERTIFICATION & TRINING

BASIC THEORY AND PRINCIPLE LIQUID CHROMATOGRAPHY | PT Ditek Jaya

June 2026

ISO/IEC 17025:2017 Awareness Training | bizplus.id

October 2024

ISO/IEC 9001:2015 Awareness Training | bizplus.id

October 2024

ADDITION

Technical Skills : Microsoft Office, Capcut Canva and Origin

Languages : Conversational Proficiency in English

Laboratory Skills : Instrumental analysis UHPLC-FLD, GC-MS, FTIR, UV-Vis (operating principles, operation, data interpretation), Sample preparation and standard solution preparation, Titration and gravimetric analysis, Water purification analysis and testing based on SNI, Micropipette calibration.