

ANFITA AULIA SAKINAH

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PROFESSIONAL SUMMARY

Chemical Engineering graduate with experience in laboratory analysis, quality documentation, and administrative support. Experienced in performing chemical and water quality testing, maintaining laboratory records, verifying test results, and supporting quality control activities in accordance with laboratory procedures and quality standards. Familiar with ISO 17025 implementation, document management, data processing, and laboratory administration. Possess basic knowledge of HPLC, Gas Chromatography (GC), and ICP-OES principles. Detail-oriented, highly organized, and proficient in Microsoft Office, with strong analytical, communication, and teamwork skills.

EDUCATION

Universitas Negeri Semarang – Semarang, Central Java

(Aug 2021 – Jul 2025)

- Bachelor's Degree in Chemical Engineering | *IPK 3.7 / 4.0*
Relevant Courses: Chemical Reaction, Organic Chemistry, Reactor, Separation Processes, Mass and Heat Balance.
Final Project: Preliminary Plant Design of Maleic Anhydride using Benzene and Air, with a capacity 2.000 tons/year

WORK EXPERIENCE/INTERNSHIP

PT Qualis Indonesia – Tangerang, Banten

Laboratory Analyst & Administration (Maganghub)

(Nov 2025 – May 2026)

- Performed water quality analysis based on SNI and regulatory using spectrophotometer (nitrite, fluoride, chromium VI, ammonia, and color), photometer (total chlorine, cyanide, nitrate, chloride), and pH meter.
- Performed Total Dissolved Solids (TDS) analysis using gravimetric and conductometric methods.
- Assisted in heavy metal testing workflows, including sample preparation and digestion, and gained theoretical understanding of ICP-OES principles and analytical methods under laboratory supervision.
- Supported quality control activities through repeat testing, retesting, and result verification.
- Recorded, reviewed, and documented laboratory test results in accordance with internal procedures.
- Prepared and assisted in the development of laboratory testing service quotations and administrative documentation.
- Followed laboratory safety and quality standards throughout all testing activities.

Chemical Engineering Laboratory Universitas Negeri Semarang – Semarang, Indonesia

Laboratory Assistant Trimitic Extraction

(Apr 2024 – Jun 2024)

- Supervised and mentored 100+ students during the trimyristin lab practicum, following standard procedures.
- Delivered instruction on separation techniques and proper use of laboratory equipment.
- Enforced laboratory rules and safety protocols to ensure a safe working environment.
- Evaluated participants' learning outcomes through pre-tests, lab report assessments, and post-tests.

PT Trans-Pacific Petrochemical Indotama – Tuban, Indonesia

Utility and Offsite Marine (Internship)

(Jan 2024 – Feb 2024)

- Studied utility systems including water treatment, power distribution, steam and gas systems, and waste processing.
- Analyzed seawater conductivity to assess raw water quality within the Seawater Reverse Osmosis (SWRO) system.
- Calculated SWRO unit efficiency using operational data and evaluated its performance against established water quality standards.
- Observed loading/unloading procedures at the marine jetty and underwater pipeline systems.

RESEARCH PROJECTS

Application of Immobilized Microorganisms for Biodeodorization and Biodecolorization of Pharmaceutical Wastewater

Universitas Negeri Semarang

(Mar 2024 – Jul 2024)

- Conducted laboratory experiments to analyze and treat industrial wastewater using biological and chemical methods.
- Applied immobilized microorganisms for treatment and assessed results based on regulatory quality standards.
- Evaluated process parameters and optimized treatment conditions to improve efficiency and meet environmental standards.
- Prepared detailed technical reports and presented findings to academic supervisors.

Utilization of Cow Manure Waste as Biogas to Support Local UMKMs in Sriwulan Village, Kendal

Universitas Negeri Semarang

(Jan 2024 – Jul 2024)

- Performed site survey and data collection on waste availability and potential energy production.
- Assisted in the installation and monitoring of biogas production systems for small businesses.

TRAINING

ISO 17025:2017

PT Qualis Indonesia

Topics Principles of Laboratory Quality Management System

(Nov 2025)

ISO 9001:2015

Makin Ahli

Topics: Principles and application of ISO 9001:2015 Quality Management System

(Oct 2025)

Microsoft Excel

My Skill

Topics: Aggregate Data, Conditional If-Else, Lookups, Index-Match, Pivot

(Sept 2025 – Feb 2026)

Aspen HYSYS Software Training

Himpunan Mahasiswa Profesi Teknik Kimia (HMPTK)

Topics: Industrial process simulation, equipment modeling (mixer, reactor, distillation, recycle system), introduction to the Aspen interface and workflow.

(Jun 2024)

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Profesi Teknik Kimia (HMPTK) – Semarang, Indonesia

General Secretary

- Managed organizational documents, coordinated meetings, and prepared official correspondence.
- Handled administrative duties including documentation, asset inventory, and report preparation.
- Supported strategic decisions as part of the General Affairs team.
- Improved communication flow within the organization and maintained accurate administrative records.

(Jan 2022 – Dec 2023)

SKILLS

- Languages

:

Indonesia (Native), English (Intermediate).
- Laboratory Skills

:

UV-Vis Spectrophotometry, Photometric Analysis, Titration and pH Measurement, Water Quality Testing (Nitrite, Nitrate, Ammonia, Fluoride, Chromium VI, Chlorine, Cyanide), Total Dissolved Solids Analysis (Gravimetric & Conductometric), Basic Understanding of ICP-OES (theoretical)
- Technical Skills

:

Microsoft Office (Word, Excel, PowerPoint), Google Workspace, Polymath, Basic AutoCAD, Aspen HYSYS, and Aspen Plus.
- Hard Skills

:

Design of Tools & Processes, Chemical Process, Data Analyst, Project Management, Quality Control (QC), Quality Assurance.
- Soft Skills

:

Attention to Detail, Time Management, Effective Communication, Analytical Thinking, Problem Solving, Teamwork.