



HAFIZHAH SHALSABILA

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SUMMARY

Chemistry Graduate from ITS with hands-on experience in industrial QC at APRIL Group and process optimization research at BRIN. Achieved up to 65% improvement in operational efficiency by designing systematic R&D and QC workflow design. Proven at managing complex research projects, and converting complex experimental data into clear, actionable insights. Combines strong analytical precision with proven leadership — led a 130-person organization and trained 1,000+ students as an LKMM Trainer. Eager to join a that values scientific rigor and continuous improvement, in roles spanning QC, R&D, or process improvement.

EDUCATION

Sepuluh Nopember Institute of Technology (ITS) *Bachelor of Science – Chemistry* | GPA : 3.35/4.00

Surabaya, Indonesia
August 2020- September 2025

- Minors# in Organic Chemistry with Thesis: Analysis of Aliphatic Hydrocarbons Biomarkers in Coal JT-01 of the Ngrayong Formation, Jatirogo, Tuban, East Java.
- Completed 50+ laboratory exercises covering analytical, organic, inorganic, physical, biochemistry, and chemical instruments analysis.
- Scholarships : Brillian Scholarship Awardee (2022) , Smart Scholarship Awardee (2021).

WORK EXPERIENCE

Fuel Chemistry Laboratory of ITS *Research Assistant*

Surabaya, Indonesia
October 2024 - July 2025

- Supervised and mentored 6 undergraduate students through the execution of 3 major thesis projects, providing technical troubleshooting and ensuring strict adherence to safety protocols.
- Coordinated laboratory reagent procurement and high-precision formulation, ensuring material readiness for complex testing phases, and reducing experiment setup time by 25%.

Fundamental Chemistry Laboratory of ITS *Laboratory Assistant*

Surabaya, Indonesia
August 2023 - December 2023

- Implemented standard laboratory protocols to ensure accurate and reliable analytical results.
- Designed and implemented critical chemistry instructional laboratory methodologies, formulated precise chemical solutions, assembled apparatus setups, and ensured equipment compliance.
- Supervised practical laboratory execution and assessed over 120 undergraduate students lab reports.

APRIL Group – Riau Andalan Pulp and Paper *Quality Control Staff Intern*

Pangkalan Kerinci, Indonesia
July 2023 - September 2023

- Audited product quality across 3 industrial processing lines: wet-pulp, dry-paper, and finishing products, and identifying non-compliance factors in wet-pulp standards.
- Standardized quality reporting for 3 production lines, decreasing detection time for non-compliance factors by 15%.
- Assisted senior technicians in conducting routine quality inspections of wet-based materials and finished dry goods against company specifications.

BADAN RISET DAN INOVASI NASIONAL (BRIN) *Research Assistant Intern*

South Tangerang, Indonesia
January 2023 - February 2023

- Formulated and processed tea branch activated carbon samples that were specifically designed for studies of carbon dioxide adsorption capacity.
- Researched, mapped, and successfully optimized the chemical activation of carbon materials across 8 distinct variation profiles.
- Maintained proper laboratory procedures utilizing a pyrolysis reactor and activated carbon processing, which improved system operating efficiency by over 65%.

Fundamental Physics Laboratory of ITS
Laboratory Assistant

Surabaya, Indonesia
July 2022- December 2022

- Directed, supervised, and graded the rigorous laboratory performance assessments and scientific reports of more than 100 undergraduate students.
- Managed the safe operational setup, tool calibration, and execution of basic laboratory modules for physics coursework.

ORGANIZATIONAL EXPERIENCE

Leadership & Management Skills Trainer of ITS

Surabaya, Indonesia

‘Nusantara’ Student Managerial Trainer of FSAD ITS

October 2021 - July 2025

- Designed curricula for leadership workshops delivered to 1,000+ students, resulting in a 90% positive feedback rating for instructional quality.
- Formulated comprehensive project plans to systematically track training progress while employing risk management strategies to maintain key performance indicators.
- Selected as an expert guest speaker for over 20 leadership and management training programs both inside and outside of ITS.

Student Managerial Trainer of ITS

February 2023 - December 2024

- Served as the Disciplinary Committee and Assessment Designer, enforcing training codes of conduct while maintaining program quality and professional standards.
- Designed and developed a comprehensive training assessment system from scratch, establishing clear evaluation rubrics and KPIs to measure participant’s competency objectively.
- Monitored and tracked the continuous progress of 80+ trainees, utilizing data-driven metrics to analyse individual growth, identify learning gaps, and generate final performance reports.

Student Executive Board of FSAD ITS

Surabaya, Indonesia

Vice President of Student Executive Board

January 2023 - March 2024

- Co-led executive operations and strategic policy formulation alongside the President, directing faculty-wide student advocacy, institutional representation, and resource allocation.
- Orchestrated faculty-wide initiatives for 130+ student members, strategically balancing cross-departmental workloads to sustain a high-achieving and healthy work culture.
- Advised the Student Body President on crisis management and mobilization strategies, successfully navigating 3 major policy advocacy campaigns.

Head Division of Kepemanduan on BAKOR Pemandu

June 2022 - January 2023

- Designed and implemented faculty-wide instructional frameworks and advanced training courses that were tailored to improve the leadership skills of the FSAD student body.
- Created proactive risk mitigation strategies and developed dynamic and metrics-driven project timelines to ensure that all program KPIs and training deliverables ahead of schedule

SKILLS

Laboratory Techniques : GC-MS Analysis, FTIR, UV-Vis spectrometry, Chromatography (gas & liquid), Titration, Qualitative Analysis, Organic Synthesis, Separation Techniques (distillation, extraction, recrystallisation, filtration, TLC, reflux, soxhlet, natural product isolation), Pyrolysis Reactor Operations, Biohazard Handling, Media Preparation, Sterilization Techniques, and Chemical Hygiene.

Quality & Process : Product Quality Inspection, QC Workflow Design, ISO 17025 (awareness), Process Optimisation, R&D Documentation, Root-Cause Analysis, and KPI Tracking.

Software & Tools : Microsoft 365, Google Workspace, ChemDraw, Matlab, Origin, Enhanced Chemstation, Notion, Canva.

Soft Skills : Critical Thinking, Leadership, Data Analysis, Project and Team Management, Teamwork, Problem Solving, Public Speaking, Public Relations.

Languages : Bahasa Indonesia (native) and English (professional working proficiency).