



ASMA' NADIA HANIFAH

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Kebonarum, Klaten, Central Java

Chemistry graduate from Universitas Gadjah Mada with practical experience in quality control and laboratory testing at Perumda Air Minum Tirta Merapi and PT Pertamina (Persero). Experienced in physical and chemical testing, laboratory instrument operation and calibration, data analysis, and documentation, with hands-on experience using UV-Vis spectrophotometer, pH meter, TDS meter, and various catalyst characterization instruments. Knowledgeable in the principles and applications of HPLC, GC, FTIR, and other analytical techniques, as well as QA/QC practices, laboratory safety, risk assessment, and ASTM standards. Proficient in Microsoft Excel and Word for laboratory data processing and reporting. Detail-oriented, accurate, and proactive, with good communication and teamwork skills and a strong willingness to learn and adapt to new procedures.

EDUCATION

Universitas Gadjah Mada – Sleman, Special Region of Yogyakarta	August 2022 – July 2026
Bachelor of Science in Chemistry GPA: 3.60/4.00	
- Relevant Coursework: Analytical Chemistry, Industrial Chemical Analysis, Spectrometric Methods, Separation Methods, Quality Assurance in Industry, Material Characterization, Organic Structure Elucidation, Electrochemical and Thermal Methods, Industrial Chemistry, and Medicinal Chemistry. - Conducted computational research on CO₂/C₂H₂ adsorption in Metal–Organic Frameworks (MOFs) using Density Functional Theory (DFT) and Grand Canonical Monte Carlo (GCMC) methods with CP2K and RASPA. - Studied the principles and applications of various analytical and characterization instruments, including AAS, FTIR, UV-Vis spectrophotometer, GC-MS, HPLC, XRD, SEM, TEM, and NMR.	
SMA Negeri 1 Klaten – Klaten Regency, Central Java	July 2019 – May 2022
Mathematics and Natural Sciences	
Member of the Earth Science Olympiad Team.	

WORK EXPERIENCE

Basic Chemistry Laboratory Teaching Assistant – Yogyakarta	February – June 2026
- Guided 150 students from the Animal Science and Industry program in Conductometric Titration laboratory sessions throughout one semester. - Explained the principles, procedures, and applications of conductometric titration, including analyte concentration determination based on conductivity measurements. - Prepared laboratory equipment and reagents, supervised laboratory sessions, and ensured compliance with laboratory health and safety protocols. - Reviewed, assessed, and provided feedback on students' laboratory reports.	
Perumda Air Minum Tirta Merapi – Klaten	May 2025
<i>Quality Control Analyst Intern</i>	
- Collected water samples from various locations following standard procedures to maintain sample integrity. - Conducted physical, chemical, and biological testing for water quality evaluation. - Operated and calibrated laboratory instruments, including pH meter, TDS meter, UV-Vis spectrophotometer, and other water quality testing instruments. - Recorded and documented test results according to laboratory SOPs and QA/QC procedures. - Applied laboratory K3 and sanitation practices during testing activities.	
Technology Innovation PT Pertamina (Persero) – East Jakarta	January – March 2025
<i>Pilot Plant & Catalyst Material Analyst Intern</i>	
- Performed catalyst characterization using a Surface Area Analyzer, Chemisorption Analyzer (ChemBET Pulsar), Particle Size Distribution Analyzer (Laser Scattering), LECO Carbon-Sulfur Analyzer, Crushing Strength Tester, and Bulk Density measurement. - Prepared catalyst samples, followed laboratory procedures and relevant ASTM standards, and applied K3/HSE practices during testing.	

- Processed and analyzed data from physical and chemical catalyst characterization tests.
- Supported laboratory preparation for an accreditation audit through document organization and laboratory arrangement.
- Prepared an internship report on the physical and chemical characterization of fresh and equilibrium FCC catalysts and the correlation between physicochemical parameters and the FCC process.

Clever Generation Tutoring Center – Yogyakarta

September – November 2024

Private Tutor for 5th Grade Student

- Provided private tutoring in Science, Mathematics, and Bahasa Indonesia for a 5th-grade student.
- Guided the student in preparing for the 2024 International Kangaroo Science Contest (IKSC).
- Designed engaging and interactive learning materials to facilitate understanding.

ORGANIZATIONAL EXPERIENCE

Olimpiade Kimia Nasional (OKN) 2024 – Yogyakarta

June – November 2024

Sub-Coordinator, Public Relations Division

- Established partnerships with 10 media partners and coordinated OKN outreach activities with 6 high schools and equivalent institutions in Yogyakarta.
- Served as a liaison officer (LO), facilitating communication and coordination with various external stakeholders.
- Submitted requests for championship trophy support to the Governor of the Special Region of Yogyakarta and the Mayor of Yogyakarta.

Bakti Sosial (Baksos) KMK 2024 – Yogyakarta

May – June 2024

Event Division Volunteer

- Assigned persons in charge for each activity and served as Master of Ceremony (MC) during the social service program.

Kunjungan Industri (KI) KMK FMIPA UGM 2024 – Yogyakarta

March – August 2024

Head of Committee

- Successfully organized visits to 3 industries and 1 higher education institution in East Java: PT Vitapharm (Viva Cosmetics), Forensic Laboratory Center (Puslabfor) of the East Java Regional Police, PT Amerta Indah Otsuka, and Universitas Airlangga.
- Successfully coordinated the logistical requirements of the visits with travel agencies and university representatives to ensure smooth execution.

Balairung Klass Try Out (BlastOut) 2024 – Klaten

October 2023 – February 2024

Briefing Division Coordinator

- Contributed to attracting more than 1,300 tryout participants through outreach activities.
- Coordinated and trained 20 Briefing Division staff in delivering outreach materials creatively and effectively.
- Managed permits and coordinated outreach activities with 22 high schools and equivalent institutions in Klaten.

PPSMB Pionir Gadjah Mada 2023 – Yogyakarta

March – August 2023

Co-Facilitator Division Staff

- Selected as one of 408 Co-Facilitators from more than 1,500 applicants through a competitive selection process involving administrative screening, assignments, and interviews.
- Served as a role model and mentor for UGM freshmen in 2023.
- Facilitated learning activities and delivered educational materials clearly and interactively to 52 freshmen.
- Assessed and recorded students’ assignment scores.
- Coordinated with faculty advisors and other divisions in the implementation of PPSMB Pionir.
- Guided freshmen in implementing SDGs through an action plan program.

- Led the organizing committee for a university visit by Universiti Sains Malaysia (USM).
- Served as a podcaster for Chit-Chast (KMK Podcast), Episode 18.
- Hosted ChemShow, Episode 2, on the KMKIMIA UGM YouTube channel.
- Served as Event Division Coordinator for the 2023 Public Speaking Training.
- Served as Master of Ceremony (MC) for the 2023 Student–Lecturer Dialogue.
- Served as Master of Ceremony (MC) for the 2023 KMK Open House.

- Led the organizing committee for a visit to the National Research and Innovation Agency (BRIN).
- Served as Public Relations staff for the RIC visit by the Faculty of Science and Mathematics, Universitas Diponegoro (UNDIP).
- Served as Master of Ceremony (MC) for the 2023 Scientific Discussion and Tifoss events.

PROFESSIONAL TRAINING

- **Performance:** Very Good.
- **Training Topics:** Introduction to Research Management, First Aid in the Laboratory, Chemical and Chemical Waste Handling, Measuring Equipment Operation and Sample Preparation Techniques, Laboratory Risk Analysis, Fire Hazard Management Practice, Sustainability in Chemistry, Data Collection and Analysis, Mendeley Scope, Tests and Evaluation.

- **Performance:** Very Good.
- **Training Topics:** Occupational Health and Safety in the Laboratory, Chemical Identification, Laboratory Equipment Introduction, Basic Laboratory Work Skills, Tests and Evaluation.

SKILLS

- **Soft skills:** Attention to Detail • Accuracy • Analytical Thinking • Problem Solving • Communication • Teamwork • Adaptability • Willingness to Learn
- **Laboratory Analysis & Quality:** Physical & Chemical Testing • Laboratory Equipment Operation & Calibration • Data Processing & Analysis • Laboratory Documentation • SOP Compliance • QA/QC Practices • Laboratory Safety (K3/HSE) • Chemical Handling • Risk Assessment • ASTM Standards • ISO 17025
- **Analytical Instruments:** Surface Area Analyzer • ChemBET Pulsar • Particle Size Distribution Analyzer • LECO Carbon-Sulfur Analyzer • Crushing Strength Tester • Bulk Density Tester • UV-Vis Spectrophotometer • pH Meter • TDS Meter • Understanding of the principles and applications of GC, AAS, FTIR, HPLC, GC-MS, XRD, SEM, TEM, and NMR
- **Software:** Microsoft Excel, Word, PowerPoint • OriginPro • Qt Grace • Python • CP2K • RASPA • Avogadro • VESTA • VMD • UCSF Chimera • Linux
- **Languages:** Indonesian — Native • English — Intermediate

AWARDS & ACHIEVEMENTS

- Contributor, Short Story Anthology, Riak yang Tak Pernah Benar-Benar Diam 1: Rumah Kedua, Buknesia, 2026.
- Awardee, BSI (Bank Syariah Indonesia) Scholarship, 2023.
- 2nd Place, Klaten Regency National Science Competition (KSN-K) – Earth Science, 2021.