

MUHAMMAD ILHAM AL KARIM

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Chemistry graduate (Cum Laude, GPA 3.57/4.00) with hands-on Quality Assurance experience — managed SQA documentation for 3 suppliers, achieving 100% on-time compliance. Validated a method for RVCM in PVC with 96.04% recovery and 2.85% RSD precision, meeting standard acceptance criteria. Skilled in GC-FID, GC-MS, XRD, BET, and with working knowledge of document control under GMP and GLP quality systems.

Education

Universitas Islam Negeri Syarif Hidayatullah Jakarta

Sep 2022 - Jun 2026

Bachelor of Chemistry

- Awarded Cum Laude with a GPA of 3.57/4.00.

Work Experience

PT Kalgen DNA

Mar 2026 - Jun 2026

Quality Assurance Intern

- Reviewed 27 batches manufacturing records, verifying correct document version, equipment, and raw materials used, with an average lead time of 18 days.
- Monitored equipment qualification status (IQ/OQ/PQ) and calibration status also schedules to ensure production assets remained within compliance windows, preventing use of unqualified or out-of-calibration equipment.
- Reviewed and administered SQA documentation for 3 suppliers, achieving on-100% on-time submission completion rate.
- Supported preparation and verification of regulatory, sustainability, and quality-related documentation while maintaining data accuracy and traceability.

UIN Syarif Hidayatullah Jakarta

Jul 2025 - Dec 2025

Undergraduate Research Assistant

- Assisted in a research project focused on the development of heterogeneous catalysts for the hydrodeoxygenation (HDO) of Palm Fatty Acid Distillate (PFAD) into renewable green diesel 94,27%.
- Conducted catalyst characterization using XRD, BET surface area analysis, Ammonia-TPD, and SEM also product analysis using GC-MS
- Prepared technical reports, research documentation, and scientific presentations on Indonesian Conference on Chemical Analysis (ICCAI) 2026.

PT Asahimas Chemical

Feb 2025 - Mar 2025

Quality Control & Assurance Intern

- Executed analytical method validation for RVCM determination in PVC using GC-FID, achieving 96.04% recovery and 2.85% RSD precision
- Generated and analyzed validation data to verify method suitability for quality control applications.
- Performed sampling, sample preparation, instrument operation, and data processing in accordance with laboratory quality requirements.
- Prepared technical reporting and presentation skills by communicating validation findings and recommendations to relevant stakeholders.

Integrated Laboratory Center UIN Syarif Hidayatullah Jakarta

Sep 2023 - Dec 2023

Laboratory Assistant – Basic Chemistry

- Supported 18+ students per semester through general chemistry practicals — titration, qualitative/quantitative analysis, and basic lab techniques (pipetting, solution preparation, etc.)
- Demonstrated proper use of basic lab equipment (burette, analytical balance, pH meter, spectrophotometer if applicable)

to make sure students learned correct technique before working independently.

- Maintained lab safety and cleanliness — chemical handling, PPE, and waste disposal — in line with SOPs, with zero safety incidents throughout.
- Monitored practical sessions to ensure procedures were followed correctly, stepping in to correct technique issues that could compromise data quality.

Organizational Experience

LMC UIN Jakarta - Jakarta

Jan 2024 - Dec 2024

Media Division Head

- Designed and executed media content strategies while leading cross-functional team operations to ensure seamless project delivery.
- Evaluated team workflows and implemented process improvements to maximize operational efficiency and content quality
- Managed key communications between team members, other departments, and external stakeholders.

LMC UIN Jakarta - Jakarta

Jan 2023 - Dec 2023

Media Staff

- Produced targeted marketing content and managed digital campaigns that successfully sold 100+ test tubes and achieved a reach of 4,848+ organic accounts.
- Spearheaded end- to- end content creation, including graphic design, copywriting, and Instagram feed management, to maintain a consistent brand identity.
- Handled public relations and communication strategies to strengthen audience engagement and community presence.