



MUHAMMAD ALFATHA

085143895675 | alfathmuhammad712@gmail.com | linkedin.com/muhammadalfatha

KH. Abdul Karim Street Number 14 Gresik

An undergraduate Chemistry student at Institut Teknologi Sepuluh Nopember (ITS) with a strong passion for research and education. Experienced in laboratory work and actively engaged in student organizations, with research interests in advanced materials and sustainable energy. Committed to developing innovative, research-based solutions that create meaningful impacts for society.

Education Level.

Nahdlatul Ulama 1 Gresik Senior High School - Gresik <i>Senior High School, 88.80/100.00</i>	Jul 2021 - May 2024
Sepuluh Nopember Institute of Technology - Surabaya <i>Undergraduate Student Chemistry Program, 3.53/4.00</i>	Jul 2024

Work Experiences.

Mrs. Ulik's Tutoring Center <i>Tutor</i>	Mar 2023 - Feb 2025
• Provided tutoring for 4–8 elementary and junior high school students in Mathematics, Science, Social Studies, and Religious Education. • Designed practice questions and assessments to prepare students for midterm and final examinations. • Assisted and guided students in completing 3–5 school assignments per week, fostering their understanding and academic performance.	

Organization & Research Experience

UKM Rebana ITS - Surabaya <i>Head of Internal Affair Department</i>	Feb 2026 - Sekarang
• Managed the implementation of four organizational programs and coordinated team-building initiatives to strengthen collaboration and synergy among members and executive board members of ITS Rebana Student Activity Unit. • Led a team of eight staff members and advisors by delegating responsibilities, monitoring progress, and ensuring the successful achievement of organizational goals and program targets.	
Himpunan Mahasiswa Kimia - Surabaya <i>Staff of Student Welfare Department</i>	Mar 2026 - Sekarang
• Served as the primary liaison by delivering official departmental announcements and information to more than 200 students accurately and effectively. • Published over 15 scholarship-related information posts to improve students' access to educational funding opportunities.	
Quantara Team <i>Researcher - PKM RE</i>	Jun 2026 - Sekarang
• Developed a TiO2 nanosheet–Carbon Quantum Dots (CQDs)–PCN-224-based photocatalytic material for sustainable energy and water treatment applications. • Conducted a comprehensive literature review of 50+ scientific publications, designed the research methodology, and contributed to the preparation of the PKM research proposal and progress reports. • Managed a research budget exceeding IDR 9,000,000, overseeing the procurement of research materials, material characterization, and experimental activities in accordance with the approved budget plan.	

Academic Competencies

- Chemistry 1 - AB (3.50/4.00)
- Chemistry 2 - A (4.00/4.00)
- Thermodynamics - AB (3.50/4.00)
- Dynamics of Chemistry - A (4.00/4.00)