



PACITA HANIFAH DARWAN

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A dependable, organized, and detail-oriented person with experience at many student organizations and committees. Her insatiable desire for knowledge drives her to seek new learning opportunities and unleash her potential. Eager to enhance technical skills and industrial expertise to contribute to the chemical engineering field in general.

Education

Universitas Gadjah Mada - Yogyakarta, Indonesia

Aug 2021 – Aug 2025

Bachelor in Chemical Engineering, 3.47/4.00

- Assistant Lecturer of Management Aug 2024 – Dec 2024
Handled the assignments grading system of 34 students (200++ homework) of the Management coursework (2 credits) about principles of management to be applied on action and decision making.
- Assistant Lecturer of Numerical Method Feb 2024 – June 2024
Handled the assignments grading system of 70 students (400++ homework) of the Numerical Method coursework (2 credits) about solving mathematical problems related to chemical engineering applications.
- Research Assistant Oct 2023 – Oct 2024
 - Conducted research with the topic with the topic Coating of Monopotassium Phosphate Fertilizer Granules with High Impact Polystyrene: Effect of Methyl Ester Sulfonate (MES) Surfactant Amount on Granule Characteristics.
 - Analyzed the impact of varying surfactant (MES) concentrations on the surface appearance of coated fertilizer granules.
 - Measured the coating thickness and compressive strength of monopotassium phosphate granules after application of the HIPS-MES coating.
 - Evaluated the phosphate release profile in water to determine the fertilizer's slow-release characteristics.
 - Modeled phosphate diffusivity using diffusion equations to quantify nutrient release behavior.

SMA Budi Cendekia Islamic School - Depok, Indonesia

Aug 2018 – Aug 2021

Natural Sciences, 92.00/100.00

- Top 5 Best Graduate Student 2020/2021

Work Experience

PT Maxxis International Indonesia - Cikarang, Kabupaten Bekasi, Indonesia

Research and Development Engineer

October 2025 – Now

- Developing and optimizing new raw material formulations to enhance tire performance and durability.
- Leading the planning, testing, and evaluation of tire prototypes to ensure they meet technical and quality standards.
- Driving continuous improvement initiatives to boost production quality, efficiency, and consistency.
- Conducting research and implementing key process parameters to support stable and scalable manufacturing.
- Overseeing and improving the utilization of equipment and materials involved in tire production.
- Collaborating closely with cross-functional teams (R&D, Production, Quality, and Supply Chain) to align product development with market and customer needs.

PT Pertamina Hulu Rokan - Duri, Riau, Indonesia

Operation & Maintenance Laboratory and Production Chemistry Team Intern

November 2024

- Conducted research with the topic Effectiveness Evaluation of Demulsifiers on Sediment and Water (S&W) Quality in Crude Oil with Bottle Test Method.
- Analyzed the formation of water-in-oil (W/O) emulsions caused by natural surfactants in crude oil (e.g., asphaltenes, resins, waxes) and mechanical agitation during fluid transfer to the Gathering Station.
- Evaluated oil-water separation performance at the Oil Treating Plant (OTP) by assessing key parameters such as time, temperature, and fluid density.
- Collected and analyzed daily Sediment and Water (S&W) data from Gathering Station X.
- Analyzed the samples from Gathering Station X by Bottle Test Method to identify the most effective demulsifier sample.
- Evaluated the performance of two demulsifiers under specific temperature conditions at Gathering Station X.
- Determined the optimal demulsifier dosage for efficient water-oil separation at Gathering Station X.

Organizational Experience

KKN-PPM UGM Grogol Berkarya - Sukoharjo, Jawa Tengah, Indonesia

A university-level mandatory program that focuses on applying academic knowledge in real-world by working in rural communities, fostering social responsibility, and contributing to local development. KKN-PPM Grogol Berkarya has been placed in Grogol, Sukoharjo.

Coordinator of Human Resources Development Division

March 2024 – August 2024

- Led the planning and execution of regular coordination meetings, ensuring structured evaluations and progress reviews from 6 divisions, followed by interactive bonding sessions to foster stronger teamwork and communication.
- Developed and maintained a member database, efficiently managing data and contact information of over 30 active members to support organizational operations.
- Initiated and led bonding programs, designing engaging activities aimed at improving internal relationships and creating a positive organizational culture.
- Supervised a team of 5 staff members, overseeing their performance through attendance, task agility monitoring, and ensuring in executing work programs.
- Actively coordinated with local government by building strong external relationships to support collaboration with society.

American Institute of Chemical Engineers (AIChE) UGM Student Chapter - Yogyakarta, Indonesia

A faculty-level student organization which has focus on enabling their member to have the best foundation to fulfill a career in chemical engineering industry by equipping them with skills and connecting them to corporate partners and sister chapter of our exclusive network from around the globe.

Vice Director of Human Resources Development Department

Oct 2022 – Jun 2023

- Planning, developing, and arranging an overall adjusted timeline for 8 work programs that focused on maintaining and developing the qualities of staff and members through various self-development events.
- Conceptualized grand recruitment systems and the first gathering agenda to welcome new staff.
- Project Officer of AIChE Membership program, which is a program for students to get various benefits offered by AIChE events, with total 40+ members from several majors in UGM.
- Spearheaded first gathering agenda for new members with seminar session followed by bonding session.
- Responsible for supervising 7 staff by monitoring their attendance, agility, and responsibility in work programs and conducted 1-on-1 meetings to ensure their well-being and performance were on track.
- Project Officer of AIChE Presidential Election. I lead my PIC to manage and execute the Presidential Hearing, including presentation, Q&A session, and study case.

Staff of Education and Competition Department

Oct 2021 – Oct 2022

- Responsible for planning and arranging programs in the field of education, including career preparation, professionalism, and competition training.
- Secretary of Chewins (AIChE Webinar), with total 300+ participants, including world-top universities student around the world.
- Person in Charge of Chelearn (AIChE Learning) program that uses a course-based learning, training, or workshop system to develop hard skills on professional and academic levels for staff and members.
- Awarded as Staff of the Year of the division at the end of the period.

Keluarga Mahasiswa Teknik Kimia (KMTK) FT UGM - Yogyakarta, Indonesia

A department-level student organization that has an executive function, students service and run as a community which has focus on student development and professional chemical engineering career.

Staff of Education and Insight Development Sector

Feb 2022 – Feb 2023

- Responsible for providing academic support services for chemical engineering student which is fostering their interest in competitions, developing their insights through scientific content publication, and preparing them for the professional world.
- Event Coordinator of Info Day 2022, which is an event to educate 145+ freshmen of Chemical Engineering UGM with general knowledge of academic years:
 - Leading my team to planning, managing, and executing the event.
 - Modernized the concept of the event by changing the speaker from lecturer turning to senior from 4 different batches so that the freshmen will get a picture of their academic life for 4 years of college through the seniors' experiences.
 - Successfully reach the goal of the event to increase freshmen knowledge of academic years, with the 95% average score in post-test.
- Event Staff of Aspen HYSYS Software Training. We arranged the concept of the event, constructed a rundown, and created Terms of Reference.
- Public Relation Staff of Competition Training program, which is successfully getting 2 teams from Chemical Engineering UGM to become champions on the scientific writing competition by LOYALISM 2022.
- Awarded as Staff of the Month (September) of the division.

Process Engineering Series of Events (POISE) UGM 2022 - Yogyakarta, Indonesia

A series of events and competitions presented by KMTK FT UGM for future engineers to sharpen their competitive sense, critical

thinking, and overall skills in order to prepare them for an upcoming world and its problems.

Staff of Poster Competition

May 2022 – November 2022

- Responsible for planning, preparing, and executing the poster competition event.
- Created guidebooks and Terms of Reference.
- Conduct the plagiarism check by analyzing the component and detail of the posters by 9 teams.
- Creating social media contents to promote the competition.
- Held a technical meeting for contestants to present competition details and other relevant content.

KarsaCita

A community that aims to be an inspirational space for dreamers to develop themselves and advocate for peace amid life pressures or mental health problems.

Volunteer of Community Development Division

Jan 2022 – March 2022

- Responsible for planning and arranging program that focused on maintaining and developing the qualities of volunteers through various self-development programs, including internal mentoring and bonding events.
- Responsible for supervising 4 staff of Social Media Division:
 - Collaboration with division leader to ensure the staff's well-being and performance were on track.
 - Facilitate each volunteer if they have a problem to find a solution together.
 - Monitoring their attendance, agility, and responsibility in work program.
 - Generated weekly reports on volunteers' performances.

Honor & Awards

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| • Staff of the Year | July 2022 |
| Issued by American Institute of Chemical Engineers (AIChE) UGM Student Chapter | |
| • Staff of the Month | Sept 2022 |
| Issued by Keluarga Mahasiswa Teknik Kimia (KMTK) FT UGM | |
| • Top 30 Bikarsa Business Plan Competition | March 2023 |
| Issued by Fakultas Informatika dan Bisnis, Bina Insani University | |
| • Top 4 Finalist Lomba Karya Tulis Ilmiah Nasional | Sept 2023 |
| Issued by MIPA Scientist Club (MSC) Event, Universitas Bengkulu | |
| • Top 65 Agriadhinata Essay Competition | Feb 2024 |
| Issued by Fakultas Pertanian, Universitas Riau | |
| • Top 4 Finalist Soedirman Event of Animal Husbandry (SEARY) 7.0 Essay Competition | April 2024 |
| Issued by Unit Penelitian dan Pengembangan Peternakan (UP3), Fakultas Peternakan, Universitas Jenderal Soedirman | |

Skills

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- **Soft Skills:** Communication, Leadership, Problem Solving, Project Management, Teamwork, Creativity & Innovation, Public Speaking
 - **Hard Skills:** Aspen Plus, Piping & Instrumentation Drawing (P&ID), Python, Matlab
 - **Language Skill:** English (Intermediate, TOEFL ITP Score: 523)