



AVISA DAMAYANTI

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Fresh graduate in Industrial Chemical Engineering with an interest in Research & Development, material development, and process optimization. Experienced in laboratory research involving material synthesis, experimental design, characterization, and data analysis. Familiar with FTIR, XRD, XRF, and SEM-EDX, with additional industrial experience in Quality Control.

Education

Sepuluh Nopember Institute of Technology - Surabaya, East Java

Aug 2022 - Aug 2026

Fresh Graduate Industrial Chemical Engineering Student, 3.10/4.00

- Relevant Coursework : Chemical Reaction Engineering, Material Technology, Process Synthesis, Process Control, Quality Control, Industrial Chemical Processes

Experiences

Research Project

*Effect of Precursor Concentration and Reactor Temperature on Hydroxyapatite Synthesis from Rice Field Snail Shells (*Pila ampullacea*) in a stirred reactor*

- Conducted laboratory-scale research on hydroxyapatite synthesis using the wet precipitation method and snail shell-derived calcium precursor.
- Performed sample preparation, solution preparation, reaction operation, sampling, dilution, and titration during the experimental process.
- Investigated the effects of precursor concentration and reactor temperature on conversion, reaction kinetics, crystallinity, and particle characteristics.
- Analyzed reaction behavior using kinetic models and Arrhenius analysis to evaluate reaction rate and temperature effects.
- Characterized synthesized materials using FTIR, XRD, XRF, and SEM-EDX to evaluate functional groups, crystalline phases, elemental composition, and morphology.
- Compared experimental results with scientific literature and references to evaluate material properties and identify factors affecting product quality.

Intern of PT. Semen Indonesia (Persero) Tbk - Tuban, East Java

Oct 2025 - Jan 2026

Unit Quality Control

- Assisted in quality control and laboratory analysis of raw materials and cement-related materials.
- Performed sample preparation, testing, data recording, and result evaluation according to established procedures.
- Compared test results with quality specifications and references to support material quality evaluation.
- Gained practical exposure to industrial laboratory operations, quality control, process monitoring, and laboratory safety.

Organizational Experiences

Business Model Canvas Competition - Surabaya, East Java

Jun 2024

Chief Executive

- Led the planning, execution, and evaluation of organizational projects to achieve established objectives and timelines.
- Coordinated cross-functional teams, delegated tasks, and monitored project progress and performance to ensure effective implementation.
- Identified operational challenges during project implementation and developed practical solutions and process improvements.
- Evaluated project outcomes and team performance to identify areas for improvement and future development.

Himpunan Mahasiswa Teknik Kimia Industri

Feb 2024 - Jan 2025

Staff of Entrepreneurship

- Supported the development and implementation of entrepreneurial projects, from planning to evaluation.
- Contributed to developing product and business ideas based on team discussions and identified opportunities.
- Evaluated project implementation and identified areas for improvement to enhance effectiveness and outcomes.
- Collaborated with team members to solve operational challenges and ensure successful project execution.

Skills & Certifications

- **Technical Skills:** Experimental Design Material, Synthesis Process Optimization, Literature Review, Experimental Data Analysis
- **Soft Skills:** Communications, Managerial, Coordination, Organize activities, Teamwork

- **Software:** Microsoft Excel, Microsoft Word, Microsoft Power Point, Aspen Hysys, Visio, Minitab, Origin Pro
- **Certifications:** GMP,HACCP, FSSC 22000 version 7.0, ISO 22000:2018, Quality Control in Food Industry