



# IKLILIYA ZAHWA MAULIDIYA

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Resourceful, result-driven, and dedicated in completing multiple projects. Having ability to analyze, coordinate and synthesize information. Able to work in a face-pace environment and able to manage time efficiency, therefore having reputation as a resourceful team.

## EDUCATION

### UNIVERSITAS NEGERI SEMARANG

Desember, 2021

Bachelor's Degree in Chemical Engineering, GPA: 3.58/4.00

- Preliminary Plant Design Project : "10.000 kL Capacity Bioethanol from Microalgae (*Dunaliella salina*) based Simultaneous Saccharification and Fermentation (SSF) Process"
- Undergraduate Thesis: "Fermentation of Synthetic Glucose from Hydrolysis of Oil Palm Empty Fruit Bunch (OPEFB) Production Using Immobilization of *Saccharomyces cerevisiae*"

### MA NU BANAT KUDUS

May, 2017

Science Major High School

- 2nd Excellent Student

## KEY STRENGTH

- ✓ Project Management
- ✓ Process Improvement
- ✓ Process Simulation
- ✓ Hands-on & Theoretical Knowledge
- ✓ Research & Data Analysis
- ✓ Technical Report Writing & Communication
- ✓ Time Management
- ✓ Creative Thinking & Problem Solving

**Computer Skills :** HYSYS| MS Office| Origin| Corel Draw| Photoshop| Premiere

## PROFESSIONAL EXPERIENCE

### PT. MAS Silueta Indonesia - Semarang, Jawa Tengah

Jan 2022 – Present

Environmental Sustainability Intern

- ✓ Responsible to handle and maintain ISO 14001 Environmental Management System document (Environment Management, Chemical management, Waste Management, Risk Assessment; Environmental Aspect and Impact; Compliance and legal document)
- ✓ Develop and implement environmental strategies and action plans to ensure corporate sustainable development
- ✓ Work with non-profit or associations to engage environmental awareness and helping community

### PT. INDOCEMENT Tbk - Bogor, Jawa Barat

Jan 2020 – Feb 2020

Engineering Intern

- ✓ Learnt about production process, utilities, optimization, safety, supply chain, and waste treatment.
- ✓ Observed equipment in field and wrote technical report including raw material, process, machine, mass and energy balance.
- ✓ Oversaw all calculation process analysis, and PFD.
- ✓ Evaluation and analyzation of The Rotary Dryer Efficiency

### Research Center of Physics, LIPI - South Tangerang, Banten

July 2020 – Sept 2020

Engineering Intern

- ✓ Responsible for researching project of "Black Pigment from Manganese Ore"
- ✓ Worked in collaboration with physicist in "Preliminary Process Design and Feasibility Study of Black Pigment Production from Manganese Ore"
- ✓ Designed a process Flow diagram, Crusher, Ball Mill, Rotary Kiln, and Grate Cooler.

### Genius School Indonesia - Semarang, Jawa Tengah

Jan 2018 – June 2019

Private Tutor of Math and Science

- ✓ Responsible for teaching to understand the lesson of primary and secondary students with total 10 students

## ACHIEVMENT

### • Recipient of The PKM-AI Grant Fund of The Ministry of Research Technology (2021)

Topic "Innovation of Bioethanol Production from Microalgae (*Dunaliella salina*) ) based Simultaneous Saccharification and Fermentation (SSF) Process"

- **Awardee of Van Deventer-Maas Sticing Scholarship (2018 - 2021)**  
Van Deventer-Maas Sticing is a non profit social organization to support Indonesian students who meet the qualification and active in social activities
- **2nd Winner National Science Paper Competition - USU, Medan (2020)**  
Topic “Innovation of Biopellet from Rice Husk to Support Renewable Energy”
- **Best Paper of National Essay Competition - Palangka Raya University (2019)**  
Topic “Innovation of Clam Shells as Dental Fillings”

**ORGANIZATIONAL EXPERIENCE**

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- **Volunteer in SIAP DARLING Community- Semarang, Indonesia** 2020  
*Social movement iniated by Djarum Foundation to build awareness of caring and preserve earth*
  - ✓ Collaborated with all departmen to create and plan agenda
  - ✓ Responsible for tutoring in fun class “Garbage Management”
  - ✓ Mantained the event of Candi Darling in order to go well
- **Treasurer of Islamic Boarding Al Asror - Semarang, Indonesia** 2019 - 2020  
*Informal islamic school which provide the opportunity for students to learn religion in depth*
  - ✓ Carried out book keeping of receipt, expenditures, and financial payments the organization
  - ✓ Make a budget to the needs of the organization
- **Infocom Staff in Engineering Research Club UNNES - Semarang, Indonesia** 2017 - 2018  
*Informal islamic school which provide the opportunity for students to learn religion in depth*
  - ✓ Manage and develop information and communication media actively and creatively
  - ✓ Provide information relating the research through the official account instagram and website
  - ✓ Publish all matter relating to organization
  - ✓ Create poster and banner for organizational behalf

**ADDITIONAL**

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Languages: Indonesia (native), English (Intermediate), Arabic (Basic)

Certifications & Training:

- Certified of Competence K3 Muda as Junior OHS (Occupatioanl Health and Safety) Specialist
- Certified of Awareness and Interpretation of Environmental Management System Based on ISO 14001:2015
- Certified of Higg FEM (Facility Environmental Module)

**REFERENCE**

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