

# AKMAL AHMAD

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## **SUMMARY**

Bachelor degree of Chemical Engineering in department of Industrial and Process Technology, Kalimantan Institute of Technology. Looking for opportunities to work in companies that are related to agro industry, mining, oil and gas industry, petrochemical, fine chemical, energy and oleochemical to start my professional career path. I Have several experiences in analysis, leadership skill, creativity, cooperate and able to operate applications such as Microsoft office (Word, PPT, Excel, Visio & Team), simulation applications such as Aspen HYSIS and ASPEN Plus. I also have high motivation, high curiosity and always excited to learn new things.

## **EDUCATION**

### **Kalimantan Institute of Technology**

**August 2018 – October 2022**

Bachelor Degree of Chemical Engineering, Industrial and process technology department :

- Thesis : Pre designed of polypropylene carbonate plant with capacity 2,000 ton/year using Carbon Capture and Sequestration (CCS) Technology
- Research : Utilization of green solvent on rice bran oil extraction with microwave-assisted solvent extraction (MASE) method
- Final GPA : 3.68 / 4.00 (Cumlaude)
- IAET Score : 515
- Scholarship :
  1. Bidikmisi 2019 | Kementerian Riset, Teknologi, dan Pendidikan Tinggi
  2. Society of Petroleum Engineering University scholarship program (SPE USP) 2022 | Society of Petroleum Engineering International

## **PROFESSION AND ACADEMIC EXPERIENCES**

### **Pertamina Hulu Kalimantan Timur (PHKT)**

**Okt 2022 - Des 2022**

#### **Project Intern**

- Succeed to evaluate and organize of Pipeline Risk Assesment on PHKT platform
- Completed to analyse and compute data of Pipeline Risk Assesment Tabulation 2023
- Succeed to measure of rate of corrosion at Petamina Hulu Kalimantan Timur (PHKT) Platform on South and North Area
- Completed to mitigate of corrosion that happening to the pipeline at Petamina Hulu Kalimantan Timur (PHKT) on North Area and South Area
- Completed to analyse data of Effectiveness Regular Cleaning Pigging, Corrosion Rate Screening Question (Internal) and Design Temperature of Petamina Hulu Kalimantan Timur (PHKT) platform on North and South Area
- Completed to make Job Safety Analysis of Pigging routine activity (Smart Pigging) on Sepinggan Victor Platform and Attaka North Bravo
- Completed to study of Pipeine Risk Assesment and Smartpigging by ROSEN

### **PT Surya Biru Murni Acetylene**

**August 2022 - Nov 2022**

- Completed to install 2 unit of mechanical draft tower (cooling tower) right before target time with air flow up to 2600 CFM
- Completed to maintenance of Air Separation Plant with capacity up to 550/700 CMH of Oxygen/Nitrogen
- Participated to The expansion project of new Air Separation Plant with capacity up to 1000 CMD of Oxygen/Nitrogen as Analyst of Process Flow Diagram and Planner Officer

- Completed to manufacture more than +/- 100 bottles of Carbon Dioxide and Oxygen
- Completed to maintenance of vacuum pump with low capacity up to 500 CMH

**PT Borneo Karya Persada**

**August 2021 - July 2021**

**Process Engineering Intern**

- Succeed to analyze and plan the design strategy of making Mono Ethanol Amin (MEA) stirred tanks from Formic Acid storage tanks with mixing efficiency level up to 95%
- Completed to conduct a Health, Safety & Environment (HSE) study on the impact of waste generated by the company in order to support Zero Waste Management on the company.

**Assistant lecturer**

**March 2022 - June 2022**

**Transport Phenomena**

- Responsible at conducting transport phenomena student in learning momentum transfer
- Examine and give score to their activity recap. **Production and Operation Management**
- Responsible at conducting problem in production and operation management student in learning how to solve the problem in the industrial most cases - Examine and give score to their activity recap.

**Drugs and Cosmetics Technology**

- Responsible at conducting the process of producing drugs and cosmetics student in learning how to identify the composition, how it work and what features that make consumer wants to use it.
- Examine and give score to their presentation as the final exam.

**Practical Assistant**

**March 2022 - May 2022**

**Fundamental Chemistry**

- Responsible to make students understand about the concept and practice in the laboratorium
- Give score to their report and safety evaluation to reduce the work accident in the laboratorium.

**Instrumental Tool Method**

- Responsible to make students understand the basic practice and analytical of the Spectrophotometry Visible
- Give score to their report and safety evaluation to reduce the work accident in the laboratorium.

**Physic and Analytic Chemical**

- Responsible to make students understand the basic practice of analytical tools to view how the reaction occur and the composition of some matter on the laboratorium
- Give score to their report and safety evaluation to reduce the work accident in the laboratorium.

**Bioprocess**

- Responsible to make students understand the phenomena on growing several bacteria or fungus and observe them directly using a microscope
- Give score to their report and safety evaluation to reduce the work accident in the laboratorium.

**Practical Assistant**

**March 2021 - May 2021**

**Fundamental Chemistry**

- Responsible to make students understand about the concept and practice about chemical reaction phenomena
- Give score to their report and safety evaluation to reduce the work accident in the laboratorium.

**Fundamental Physics I**

- Responsible to make students understand about the concept and practice about parabolic movement in the lab simulation
- Give score to their report and safety evaluation to reduce the work accident in the laboratorium.

**Practical Assistant**

**March 2020 – September 2020**

**Fundamental Chemistry**

- Responsible to make students understand about the concept and practice about chemical reaction phenomena

- Give score to their report and safety evaluation to reduce the work accident in the laboratory.

#### **Fundamental Physics I**

- Responsible to make students understand about the concept and practice about water tower in the lab simulation
- Give score to their report

#### **Fundamental Physics II**

- Responsible to make students understand about the concept and practice about vector in the lab simulation
- Give score to their report

#### **Practical Assistant**

#### **March 2019– June 2019 Fundamental Chemistry**

- Responsible to make students understand about the concept and practice about chemical reaction in the laboratory
- Give score to their report and safety evaluation to reduce the work accident in the laboratory.