

ABOUT ME

A process engineer who is currently seeking for opportunities to switch careers into software engineering. Having experience in using Python to solve several chemical engineering problems during college made me realize that computer programming is that powerful for solving even complex simultaneous differential equations which cannot be solved by analytical calculations and it drives my interest in learning programming any further.

EDUCATION

Gadjah Mada University (Aug 2017 – Aug 2021) - Bachelor of Chemical Engineering

(GPA: 3.94 out of 4.00)

Achievements:

- Best Graduate of Engineering Faculty of Gadjah Mada University (2021)
- 3rd Winner of Research and Engineering Studies Competition (RESPON) held by PT Petro Oxo Nusantara (2021)
- PT Hankook Tire Indonesia Scholarship Awardee (2019)
- Selected as Laboratory Assistant for 3 different labs in 3 consecutive semesters (2020-2021)
- Selected as Lecturer Assistant and Grader for 3 different courses in 2 consecutive semesters (2018-2019)

WORKING EXPERIENCE

PT JFE Engineering Indonesia

South Jakarta, Jakarta

Process Engineer

Dec 2021 – Present

- Performed process engineering job lists in Engineering, Procurement, and Construction (EPC) projects, such as developing Piping and Instrumentation Diagram (P&ID), mass and heat balance calculation, Process Flow Diagram (PFD), process simulations using Aspen Hysys and Aspen Plus software, several process engineering calculations, etc. Have been working for 2 EPC projects.

PT Kaltim Methanol Industri

Bontang, East Borneo

Process Engineer Intern

Oct 2020 – Jan 2021

- Performed Life Cycle Assessment (LCA) to be reported to the Ministry of Environment and Forestry of Republic of Indonesia through PROPER project to quantify the environmental impacts resulting from methanol production process with an emphasis on greenhouse gas emissions using SimaPro software, as well as recommended several strategies which minimize greenhouse gas emissions while increasing company profits

Chemical Engineering Department of Gadjah Mada University

Yogyakarta

Aspen Plus Process Simulation Labwork Assistant (Part-Time)

Jan 2021 – June 2021

- Taught students how to use Aspen Plus software to simulate any chemical process and equipment design, created practical assignments for them to work on after every tutorial session, also assessed all of their assignments.

Unit Operations Labwork Assistant (Part-Time)

Sep 2020 – Dec 2020

- Assisted students in performing unit operations lab work, taught them how to operate several process equipment, how to conduct research to acquire data and how to analyze it as well as giving scores for their performance while running laboratory work

Computation Labwork Assistant (Part-Time)

Feb 2020 – Jun 2020

- Taught students how to use Spyder (open-source software for **scientific programming in Python** language) to solve several chemical engineering problems

Lecturer Assistant for 'Chemical Engineering Principles' Course (Part-Time)

Jul 2019 – Dec 2019

- Gave additional tutorials for the students in preparation for 'Chemical Engineering Principles' course exam

Grader for 'Material Transport and Storage' Course (Part-Time)

Jul 2019 – Dec 2019

- Assessed all of the assignments done by students

Grader for 'Material of Constructions for Chemical Engineering' Course (Part-Time)

Jul 2018 – Dec 2018

- Assessed all of the assignments done by students

SOFTWARE SKILLS

Aspen Plus, Aspen Hysys, MATLAB & Simulink, Python Spyder, SimaPro, ALOHA, Microsoft Office (Word, Excel, Power Point, Publisher, Visio)

EXTRACURRICULAR ACTIVITIES

Treasurer, Secretary, Education Division Officer – Society of Petroleum Engineers UGM Student Chapter

Jan 2018 – Dec 2020

- As Treasurer (2020), I succeed to manage organization's finances so that the ending balance is 3 times the initial balance
- As Secretary (2019), I contributed to the successful execution of the work programs and managed to make responsibility reports at the end of working periods that brought this organization achieved Student Chapter Excellence Award from SPE International
- As Education Division Officer (2018), I successfully executed 20+ work programs a year covering courses, software training, and webinar with practitioners from oil and gas industry

Student Subunit Coordinator – UGM Student Community Service for Sigosaren Village

Jun 2020 – Aug 2020

- Led 11 team members from different backgrounds to execute the planned work program

Case and Questions Maker – Process Engineering Series of Events (POISE) 2019

Feb 2020 – Jun 2020

- Created questions and case studies to be contested in Smart Competition