



RUT APRILLIA

Date of birth: 14/04/1998 | **Nationality:** Indonesian | **Gender:** Female |

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About me: A chemical engineering graduate from Universitas Gadjah Mada concentrating in programming and chemical process safety. Currently pursuing career as Junior Process Engineer at PT Rapid Infrastruktur. Working project-based-work has formed me into adaptive, fast-learning, and agile kind of person. I am familiar with some computational chemical engineering software to solved process problem.

● WORK EXPERIENCE

06/01/2020 – CURRENT – Batam, Indonesia

PROCESS ENGINEER – PT RAPID INFRASTRUKTUR INDONESIA

Assigned on start-up stage of PT Enerco RPO International (TDAE Plant, additive for rubber manufacturing) with key responsibilities as follow:

- Licensor assistance during start-up of the Plant
- Generating schedule and manpower planning for plant cleaning activities.
- Leading coke formation test and another research on laboratory.
- Leading commissioning and start up small scale plant unit for new feed testing
- Conduct plant technical feasibility study to run at 130% capacity
- Conduct preliminary study of nitrogen generator purchasing plan
(The study consist of process technology selection, marking up P&ID, calculating CAPEX and OPEX estimation, and calculating return on investment (ROI) of the equipment)

2019 – Yogyakarta

RESEARCHER ASSISTANT (PART TIME) – PROCESS SYSTEM ENGINEERING RESEARCH GROUP (PSERG) UGM

1. Evaluating economy feasibility of algae product design
2. Compiling proposal to be submitted for project funding of Kementerian Keuangan Republik Indonesia

2019 – Yogyakarta

UNIT OPERATION LAB ASSISTANT – CHEMICAL ENGINEERING, UGM

Assisting student to simulate residence time distribution on continues stirred tank, reviewing analysis report, and preparing laboratory activity final examination materials.

2019 – Palembang

PROCESS ENGINEER INTERN – PT PUPUK SRIWIDJAJA

Evaluating ammonia converter performance by comparing between the actual data and the design data. The actual data was modelled into mathematical modelling and then computed with MATLAB.

2018 – Yogyakarta

LECTURER ASSISTANT FOR MATHEMATICAL MODELLING – CHEMICAL ENGINEERING DEPARTMENT, UNIVERSITAS GADJAH MADA

Assisting the lecturer to correct student's homework and tutoring students about the related subject.

● EDUCATION AND TRAINING

25/08/2015 – 30/08/2019 Yogyakarta, Indonesia
BACHELOR'S DEGREE – Universitas Gadjah Mada

Chemical Engineering

GPA : 3.62/4.00

Final Project: Preliminary Design of Activated Carbon Plant from Palm Kernel Shell

● LANGUAGE SKILLS

Mother tongue(s): INDONESIA

Other language(s): ENGLISH (PBT SCORE 533)

● DIGITAL SKILLS

Microsoft Office | MATLAB&Simulink | Aspen HYSYS | Adobe Photoshope

● PUBLICATIONS

Modifying Nanoporous Carbon through Hydrogen Peroxide Oxidation for Removal of Metronidazole Antibiotics from Simulated Wastewater

<https://www.mdpi.com/2227-9717/7/11/835> – 2019

Antibiotics had been widely known as contaminant on the discharge water of municipal waste, hence this could lead to serious environmental problem. Carbon active is one of adsorbent can be used as water treatment. This study examined change in pore structure and microstructure of nanoporous carbon after surface oxidation and how it affects the adsorption performance of metronidazole antibiotics.

● SOCIAL ACTIVITIES

2017 – 2018

Reactics Chem-E-Car UGM

2016/2017 as a secretary:

compiling funding proposals and preparing the files required by the technical team for the competition.

2017/2018 as a technical team:

Conduct energy research to reach the target race. In addition, I also represented the team to do a presentation in front of the judges

2016 – 2017

Staff of Keluarga Mahasiswa Teknik Kimia UGM

I was in the community service division, responsible for organizing a socio-entrepreneur program. the program involves friends from the orphanage, I coordinate my division to prepare a routine program once a week. The program is making handmade bags and notebooks to be sold and the profits are given to the orphanages.

2015 – 2017

Staff of Mahasiswa Pecinta Alam Teknik Kimia

Organizing recreational programs for chemical engineering students. Develop an itinerary, tourist survey, and coordinating the D-Day of the event.

● HONOURS AND AWARDS

Best Presentation on Indonesia Chem-E-Car Competition (2018) – Institute Teknologi Sepuluh Nopember

Finalist of Chemical Product Design Competition (2018) – Universitas Indonesia

1st Runner up of Race Competition on Indonesia Chem-E-Car Competition (2018) – Institute Teknologi Sepuluh Nopember
