



## FARID JOHOR ABDULLAH RITONGA

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### SUMMARY OF QUALIFICATIONS

I am an Engineering Physics student at Universitas Gadjah Mada with experience in several projects and have a strong interest in the oil & gas industry, mining industry, electronics, instrumentation, and control systems. I have internship experience at PT Pertamina Hulu Rokan, focusing on electrical and control systems. I am actively involved in academics, lecture projects, and paper competitions.

### EDUCATION

<b>Universitas Gadjah Mada</b> , Faculty of Engineering	Yogyakarta, Indonesia
<i>Bachelor of Engineering, Physics Engineering</i>	2021 – 2025
Instrumentation and Control	Current GPA: 3.18/4.00 (Expected: 3.3/4.00)

### RELEVANT COURSEWORK

PLC & HMI Training (Schneider), P&ID, Instrumentation System, Automation System Design, Controlled Logic Programming, Digital and Analog Electronics, Communication Network, Engineering Drawings.

### SKILLS & INTEREST

**Technical** : Machine Experts (PLC Programming), AutoCAD, Autodesk Inventor, WebDev, IoT

**Language** : Indonesia (Fluent), English (Intermediate)

**Interest** : Instrumentation Control, Oil & Gas Industry, Mining Industry, Energy

### RELEVANT EXPERIENCE

<b>PT Pertamina Hulu Rokan</b>	Duri, Indonesia
Student Intern at Facility Engineer-Operation Engineer	January 2024 – February 2024
<ul style="list-style-type: none"><li>Learning about company culture, attending weekly meeting agendas, and helping the mentor with several administrative tasks, such as filling out AoC and conducting field visits to the gathering station</li><li>Writing a final internship report with the task of analyzing an online monitoring system integrated with data mining algorithms to predict congeal oil phenomena in oil pipelines</li></ul>	

### PROJECT EXPERIENCE

#### MethaneTrack UGM

Electronics and Programming	June 2024 – Current
<ul style="list-style-type: none"><li>Designing electrical circuit schematics, creating the interface system based on web development language, and writing a paper for scientific publication and final thesis. This project funded by Dana Hibah FT UGM 2024</li></ul>	

#### Final Task of Instrumentation System Practicum

Electronics and Programming	March 2024 – June 2024
<ul style="list-style-type: none"><li>Member of public facilities sub-system group with the task of developing an energy-saving system and a disaster early warning system based on IoT that integrated to the main system, Sleman Sembada.</li></ul>	

#### ThinkFast DTNTF

Electronics and Programming	June 2023 – October 2023
<ul style="list-style-type: none"><li>Developing an IoT training kit module with several practical examples of IoT systems based on Arduino and conducting IoT training at MA Assalafiyah Mlangi. This project funded by DTNTF UGM 2023.</li></ul>	

#### Ci-Theray Team

Electronics and Mechanics	June 2023 – November 2023
<ul style="list-style-type: none"><li>Developing the 3D mechanical model and electrical circuit of the Ci-Theray system using Autodesk Inventor and Fritzing. This project funded by Belmawa Dikti 2023 on Innovative Work scheme</li></ul>	

### HONORS & AWARDS

- Scholarship Awardee of PT IMIP Downstream Scholarship 2024
- 2nd Runner Up Essay Competition at Festival Hari Bumi BEM PKN STAN 2024
- 2nd Runner Up Business Case Competition at Annual Petroleum Competition and Exhibition (APECX) 2024
- Scholarship Awardee of Dato' Low Tuck Kwong Scholarship 2023

## **ADDITIONAL EXPERIENCE**

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### **KKN-PPM UGM Senjana Sangihe 2024**

Kepulauan Sangihe, Indonesia

Subunit Coordinator of Simueng Village & Transportation Division

July 2024 – September 2024

- Coordinating student to implementing their work programs in the Simueng Village, writing sub-unit work program reports, and planning travel and accommodations for students during the implementation of the KKN-PPM in Kepulauan Sangihe, Sulawesi Utara.

### **Department of Nuclear Engineering & Engineering Physics**

Yogyakarta, Indonesia

Laboratory Assistant of Analog Electronics

- Assisting students in conducting analog electronics practicum for one semester, designed final exam questions based on analog circuit case studies, and assessed the students' final grades

Laboratory Assistant of Basic Physics

- Assisting students in conducting basic physics practicum at semester two and assessed the students' final grades based on their performance in practicum.

### **BEM KMFT UGM**

Yogyakarta, Indonesia

Expert Staff of Strategic Analysis and Campaigns Ministry

February 2024 – February 2024

- As a double agent from Inspectorat General Ministry to monitoring the work program of Analysis and Campaigns Ministry and Writing the monthly KPI reports of the ministry

Staff of Academics and Professional Ministry

January 2022 – January 2023

- Coordinating Ministry staff in implementing the work program for the International Webinar Infinity 2022.