

ALDI ALFIANDIANSYAH

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EDUCATION

BE in Engineering Physics, University Gadjah Mada

Aug 2020 – Jul 2024

GPA: 3.45/4.00 (148 credits) \pm 17 credits left.

WORKING EXPERIENCES

PT Permata Graha Nusantara (Subsidiary Pertamina Gas Negara)

Aug 2024 – Present

Commercial Division

- Responsible for managing contracts, project budgets / cost control, coordinating tenders, supply chain, and EPC (Engineering, Procurement, and Construction).

Engineering Research Innovation Center Universitas Gadjah Mada

Feb 2024 – Aug 2024

Project Control & Software Engineer

- Participate in planning, executing, control, and monitoring projects
- Project management
- Responsible for website development (software engineer)
- Analyze operational and financial to following trends
- Learn and development innovative product in the global market

PT Telkom Indonesia

Okt 2023 – Mar 2024

Telecom, Network, IoT, and Software Engineer

- Development of an IoT- based earthquake early warning system product to improve earthquake disaster mitigation in Indonesia
- Creating an integrated system on the dashboard in real time, collecting radon data using BLE and sending data using LORAWAN to the IoT Platform.
- Fullstack Engineer in making the initial figma design, frontend(HTML, CSS, and JavaScript)and backend(AJAX,MySQL) on the Earthquake Early Warning System.

PT Kilang Pertamina Internasional Unit VI Balongan

Jan 2023 – Mar 2023

Electrical and Instruments Inspection Engineering

- Inspection Planning: Assist in planning periodic inspections involving electrical and instrumentation equipment at Pertamina's facilities.
- Maintenance and Repair: Carry out regular inspections to ensure electrical and instrumentation equipment is functioning properly. If a problem is detected, you will be involved in planning and carrying out the necessary maintenance or repairs.
- Testing and Verification: Perform testing and verification of newly installed or repaired electrical and instrumentation equipment.

ORGANIZATIONAL, EVENT, AND VOLUNTEER EXPERIENCES

HackBiz by 180 Degrees Consulting University of Gadjah Mada

Jun 2022 – Aug 2022

Brand Ambassador

180 Degrees Consulting University of Gadjah Mada is UGM branch of the world's largest student-led consultancy for non-profit and social enterprise.

- Promote the brand through personal social media accounts
- Maintaining a positive image of the brand
- Give a special code for the user to get the promo

PPSMB UGM 2022*Mar 2022 – Aug 2022***Logistic dan Consumption**

Successful Learner Training for New Students (PPSMB) is a series of annual event involving the entire UGM academic community to welcome the event new students.

- Organize and manage the food menu and manage the schedule
- Fully responsible for the production of event support equipment
- Manufacture for symbolic ceremonial activities

Gadjah Mada Flying Object Research Center*Sep 2022 – Dec 2022***Project Leader**

Gadjah Mada Flying Object Research Center (GAMAFORCE) is a flying robot team from Gadjah Mada University which is engaged in research and development of Unmanned Aerial Vehicles (UAV).

- Prepare design requirements for Open Recruitment GAMAFORCE 2023
- Hold a meeting to monitor progress
- Create a series of events and timeline

Gadjah Mada Flying Object Research Center*Dec 2021 – Dec 2023***Media**

Gadjah Mada Flying Object Research Center (GAMAFORCE) is a flying robot team from Gadjah Mada University which is engaged in research and development of Unmanned Aerial Vehicles (UAV).

- Documentation for all activities in GAMAFORCE
- Responsible for social media needs
- Responsible photo and video needs for each subteam in GAMAFORCE

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika*Sep 2021 – Feb 2022***Evaluator at DINAMIKA 2021**

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika is an institution under the auspices of the department that accommodates interest, talents, also conveys the aspirations of students.

- Evaluate participants or members in performance in the organization
- Monitor the activities that take place within the organization

Forum Komunikasi Unit Kegiatan Mahasiswa*Sep 2021 – Nov 2021***Championship Division at PORSENIGAMA 2021**

A communication forum between Gadjah Mada University Student Activity Units (UKM) and has a work program that involves more than one Student Activity Unit.

- Responsible achievements for trophies, medals and certificates in each sport
- Designing awarding medals for several competitions
- Update standings every match

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika*Nov 2021 – Nov 2022***Human Research Development**

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika is an institution under the auspices of the department that accommodates interest, talents, also conveys the aspirations of students.

- Provide training and development to all members organization
- Carry out performance evaluations.
- Monitoring the performance of existing divisions

Soulhealer.id*Sep 2021***Publication**

Soul Healer is an educational platform engaged in mental health, self-development, and psychology.

- Promote the brand through personal social media accounts
- Maintaining a positive image of the brand
- Give a special code for the user to get the promo

Forum Studi dan Diskusi Ekonomi (FSDE)*Aug 2021 – Oct 2021***Brand Ambassador**

The Forum Studi dan Diskusi Ekonomi (FSDE) is a series of events presented by Gadjah Mada University Economics Students to the community to increase awareness of issues in this country, especially from an economic perspective.

- Promote the brand through personal social media accounts
- Maintaining a positive image of the brand
- Give a special code for the user to get the promo

180 Degrees Consulting University of Gadjah Mada*Jun 2021 – Jul 2021***Brand Ambassador**

180 Degrees Consulting University of Gadjah Mada is UGM branch of the world's largest student-led consultancy for non-profit and social enterprise.

- Promote the brand through personal social media accounts
- Maintaining a positive image of the brand

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika*May 2021 – Nov 2021***Publication dan Documentation at EPSILON 2021**

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika is an institution under the auspices of the department that accommodates interest, talents, also conveys the aspirations of students.

- Publication of posters, banners and posts (social media).
- Take pictures / videos during activities such as exercises, dress rehearsals, and main stages.
- Making and publish event teaser videos

Keluarga Muslim Teknik*Apr 2021 – Dec 2021***Media**

Institution that becomes a family forum for the entire Muslim community and Muslim women of the Faculty of Engineering , Gadjah Mada University.

- Responsible for social media needs
- Prepare design requirements
- Documentation several activities in Keluarga Muslim Teknik

PPSMB UGM 2021*Mar 2021 – Sep 2021***Logistic and Consumption**

Successful Learner Training for New Students (PPSMB) is a series of annual event involving the entire UGM academic community to welcome the event new students.

- Organize and manage the food menu and manage the schedule
- Fully responsible for the production of event support equipment
- Manufacture for symbolic ceremonial activities

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika*Mar 2021***Documentation at CONSONANCE 2021**

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika is an institution under the auspices of the department that accommodates interest, talents, also conveys the aspirations of students.

- Planning a content of social media
- Documenting all series of activities and making documentary videos
- Editing aftermovie activities and live report every eries of events

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika*Mar 2021***Head of Logistics and Consumption at CONSONANCE 2021**

Keluarga Mahasiswa Teknik Nuklir dan Teknik Fisika is an institution under the auspices of the department that accommodates interest, talents, also conveys the aspirations of students.

- Organize and manage the food menu and manage the schedule
- Fully responsible for the production of event support equipment
- Prepare the stage for the opening ceremony CONSONANCE 2021

PROJECTS

- **PT Mataram Inovasi Rekayasa Website Development** 2024 - recents
Creating a PT Mataram Inovasi Rekayasa website that integrates responsive websites on several devices at once (desktop, mobile, tablet) and realtime using wordpress.
- **Modular Waste Water Treatment Plant (WWTP)** Mar 2024
Development of energy-efficient and efficient WWTP (Waste Water Treatment Plant) The food processing industry of PT Bersama Bangun Pangan still has obstacles in processing waste that has not been maximised, so that the development of Waste Water Treatment Plant technology Waste Water Treatment Plant (WWTP) with the standard of Permen LHK No. 68 year 2016.
- **Mechanism And Algorithm Of Earthquake Early Warning System Based On Radon Gas At Kupang Telemonitoring Station** Feb 2024 – Jul 2024
Algorithm for predicting the time, magnitude and location of earthquakes was obtained for the Kupang City radon gas concentration telemonitoring station with a probability mechanism value of 75%. The time prediction algorithm has 78% precision and 87% sensitivity. The best precision magnitude prediction algorithm is 88%, the lowest standard deviation is M0.29, and the average error is M0.25. The best location prediction algorithm has 74% precision, a standard deviation of 1 cluster, and an average error of 1 cluster. Algorithms can be used as an early warning system to predict time, magnitude and location in earthquake mitigation efforts.
- **Fullstack and Network Engineer Earthquake Early Warning System** Okt 2023 – Mar 2024
Creating an integrated system on the dashboard in real time (HTML, CSS, JavaScript, AJAX), collecting radon data using BLE and sending data using LORAWAN to the IoT Platform to monitoring about radon gas for Earthquake Early Warning System.
- **Automatic Watering System for Hydroponic Plants** Jul 2023 - Aug 2023
Automatic watering in hydroponics using ESP32 microcontroller accompanied by ultrasonic sensors with telecontrol technology using BLYNK in the real work programme of Universitas Gadjah Mada in collaboration with local indigenous communities.
- **Simulation of Waste Melting into Appropriate Goods at Temporary Waste Management Sites** Jul 2023 – Aug 2023
The melting of waste such as plastic, rubber, bottles, cardboard which then melts the waste into appropriate items such as chairs, tables, knick-knacks or can be called Holzewig, a new material from recycling plastic waste that can be used to replace wood and even iron.
- **Design and Implementation of a Parking System with Ultrasonic Sensor and Distance Approach and AI to Detect Objects Around the Vehicle** Mei 2023 – Jun 2023
This system will be very useful for reverse parking or parallel parking because it presents visual data and information accurately. So this system will be able to display visual images through the ESP 32 CAM camera along with the distance between the camera and objects around the car.
- **Human Machine Interface (HMI) and Distributed Control System (DCS) of Knock-out Drum Flare System with Yokogawa Centum VP** Mei 2023 – Jun 2023
Develop Distributed Control System (DCS) and Human Machine Interface (HMI) of Knock-Out Drum Flare System.
- **Automatic Radio Frequency Identification RFID Gate System with ESP 32 Microcontroller** Mar 2023 – Apr 2023
Designing an RFID system at the gate of the Faculty of Engineering, Universitas Gadjah Mada using an ESP32 microcontroller with an infrared sensor.

COURSES AND CERTIFICATIONS

- **Practical Work PT Kilang Pertamina International Refinery Unit VI Balongan** (Ket - 091 /KPI49800/2023-S9)
- **Intership Internet Of Things PT. Telkom Indonesia** (No. C.TEL D-0413267/PD620/TCU-1B000000/2024)
- **Joint Research Early Warning System with Gadjah Mada University and Telkom CorpU on Kedaireka Program** (RIM.INT/001/Q4-0064/2024)
- **Management Supply Chain-Certificate** (CERT-34424A6F)
- **C1-Advanced English Test** ([Official EF SET Certificate | Aldi Alfiandiansyah](#)) by EF SET

SKILLS, LANGUAGES, AND OTHER

Skills and Interest : EPC Enthusiast, Internet of Things(IoT), Instrumentation and Control, Technology, Network Engineer (MQTT, HTTP, LoRaWAN), Fullstack (Frontend and Backend), UI UX Design, Web Development, and Bussines.

Language : Indonesia, English, Native or bilingual proficiency

Other : Photography and Videography