



ALDI ALFIANDIANSYAH

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Aldi Alfiandiansyah is an final year undergraduate engineering physics student at Universitas Gadjah Mada that have an interest instrumentation , network engineer, software engineer, Artifical Intelligence(AI) , Internet of Things(IoT) which has been implemented in several project, practical work, and professional work.

Education Level

Universitas Gadjah Mada - Yogyakarta
Bachelor Degree in Engineering Physics, 3.44/4.00

Aug 2020

SMA Negeri 11 Yogyakarta - Yogyakarta
Natural Science

Jul 2017 - Jul 2020

Work Experiences

Engineering Research Inovation Center Universitas Gadjah Mada - Yogyakarta
Research Assistant

Feb 2024 - Present

PT. Telkom Indonesia - Bandung, Jawabarat
Junior Researcher

Nov 2023 - Jan 2024

- 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 - Balongan, Indramayu
Electrical and Instruments Inspection Engineering

Jan 2023 - Feb 2023

- 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

Organisational, Event, and Volunteer Experience

HackBiz by 180 Degrees Consulting University of Gadjah Mada
Brand Ambassador

Jun 2022 - Aug 2022

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
Logistic dan Consumption

Mar 2022 - Aug 2022

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
Project Leader

Sep 2022 - Dec 2022

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

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

Dec 2021 - Dec 2023

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 -

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

Logistics 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

Project, Skills, Achievements & Other Experience

- **Fullstack and Network Engineer Earthquake Early Warning System:** 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
- **Project Design and Implementation of Distance Estimation and Object Detection Artificial Intelligence on Vehicles with ESP32CAM:** Create an artificial intelligence system using tensor flow by utilizing the ESP32 CAM microcontroller device as well as a camera on the ESP32 CAM device to detect objects and estimate the distance between the sensor and the object with C++ and Python.
- **Camera Streaming ESP32 Integrated BIYNK App:** Stream camera projects using ESP32 with integrated BLYNK App and Arduino IDE with C++.
- **System Integration with Control Room Smart Tourism City using MQTT and GUI:** Create a room control system for making smart city mockups consisting of gas stations, pedestrians, food stalls which are integrated into one unit and can be displayed on a graphical user interface with Python.
- **RFID System Gate Automatic:** Create an integration system using radio frequency (RFID) by implementing it on the MGS servo in making an automatic gate system with Arduino IDE C++.
- **Semifinalist Petrolida Bisnis Case Competition :** Society of Petroleum Engineers ITS
- **Predicate Sound Engineering :** Fakultas Teknik, Universitas Gadjah Mada
- **Practical Work PT Kilang Pertamina International Refinery Unit VI Balongan :** PT. Kilang Pertamina Internasional RU VI Balongan
- **Intership Internet Of Things PT. Telkom Indonesia :** PT. Telkom Indonesia
- **Joint Research Early Warning System with Gadjah Mada University and Telkom CorpU on Kedaireka Program :** PT. Telkom Indonesia

- **Languages:** English (Professional working proficiency) •Indonesian (Native)
- **Soft Skills:** •MS Word•MS Excel•Canva• Adobe Illustrator•Figma•Photoshop•Adobe Premier•Autocad•Sketchup
- **Engineering:** •Project Management •Communication • Instrumentation and Control •Network Engineer (MQTT, HTTP, LoRaWAN) • Fullstack (Frontend,Backend)
- **Other:** •Photography •Videography •Graphic Design