

# ALWASI MUHRIJAFIATNA

## Electrical Engineering Education Bachelor

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## SUMMARY

A fresh graduate from the Faculty of Engineering and Industrial Education at Indonesia University of Education, I graduated with cum laude honors and have a strong interest in AI programming and Electrical Telecommunication. I bring 3 years of experience as an aviation electronics student at SMKN 12 Bandung, during which I earned a competency certification in electronics. I have completed Industrial Work Practice in aviation maintenance at PT Dewata Angkasa and in Arduino programming at PT Inovindo Digital Media. Additionally, I taught Aircraft Electronic Navigation Communication Installation at SMKN 12 Bandung. I also hold a Proficiency in English for Speakers of Other Languages license from The Language Center, Indonesia University of Education. I possess excellent communication skills and a pleasant personality.

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## EXPERIENCE

### SMKN 12 Bandung

Teacher (July 2023 – December 2023)

- Teaching in two Class with concentration of aviation electronics.
- Teaching Aircraft Electronic Navigation Communication Installation and Installation of Instrument in Aircraft subject.
- Make a learning plan
- Crate a module for student to learn.
- Create student worksheet.
- Conduct assessments on students.

### PT INOVINDO DIGITAL MEDIA

Apprentice Programmer (June 2023 – Augst 2023)

- Making an IoT (Internet of Things) Project.
- Design and Build an IoT-based smart pot system to optimize the growth and care of ornamental plants.
- Make a module about design and build an IoT-based smart pot system to optimize the growth and care of ornamental plants.

### PT DEWATA ANGKASA

Apprentice Electrician (April 2019 – July 2019)

- Checking and testing of each repair unit.
- Trial and error of generator unit, hydraulic unit, and instrument aviation unit until find cause the malfunction based on manual book.
- Maintenance, repair, and overhaul of hydraulic system and instrument of aircraft.

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## EDUCATION

### INDONESIA UNIVERSITY OF EDUCATION

Bachelor of Education (Electrical Engineering)

- Temporary GPA 3.54 (2020 – 2024)
- Actively participation of organization and training.
- Participated in more than 10+ campus event, such as skills training, workshop, and webinars.

### VOCATIONAL HIGH SCHOOL 12 BANDUNG – Bandung, West Java

Aviation Electronics (2017 – 2020)

- Graduated with average score of all subject 85.
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## PROJECTS

### Application of Machine Learning and Deep Learning for Horticultural Plants Identification web Based (April 2024 – September 2024)

- Created a web based application to identify a horticulture plants, weeds, pest, and make a estimated cost to cultivate a crop.

### Design and Development of IoT-based smart pot system to optimize the growth and care of ornamental plants (June 2023 – Augst 2023)

- Created a pot that can analyze the condition of a plant based IoT Cloud.

### Design of FTTH Access Network Using Gigabit Passive Optical Network (GPON) in Setiabudhi Terrace Housing Estate (April 2023 – May 2023)

- Created the design of Fiber to the home (FTTH) network for 45 house in Setiabudhi Terrace Housing Estate.

### Simple Hartley Oscillator Resonance Frequency Calculator (March 2023 – April 2023)

- Created a simple calculator with three inputs using python language

### Design and Development of Automatic Trash Bin Based on IoT (May 2020 – June 2020)

- Created a miniature IoT based automatic gate using an ESP32 microcontroller, and ultrasonic sensor to measure the distance between hands and a trash bin.
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## SKILLS

Electrical Telecommunication, Electrical Installation, Leadership and Communication, Arduino IDE, HTML, CSS, MySQL, Microsoft Visual Studio Code, AutoCAD, Microsoft Office 365, Machine Learning Applications, Python Programming. Proteus, NI Multisims.

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## ORGANIZATION

### Himpunan Mahasiswa Elektro

Chairman of the Sub-Division of Telecommunication Engineering Development (June 2022 – June 2023)

- Creating a plan and instruction the employee to carry out the work program

Steering Committee Telecommunication Training (January 2023 – May 2023)

- Provided actionable recommendations to the committee on how to optimize event planning process, resulting in a 20% increase in attendance and a 30% reduction in event planning time.

Project Manager Workshop Telecommunication (September 2021 – February 2022)

- Directing and ensuring the Committee prepares and carries out the work program until completion.

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## LICENSE & CERTIFICATE

For more information of license and certificate, you can access link of below:

[https://drive.google.com/drive/folders/1FHngS2gjBjLzGSmA07h01\\_gz9Q4gGd0Y](https://drive.google.com/drive/folders/1FHngS2gjBjLzGSmA07h01_gz9Q4gGd0Y)