



# MUHAMMAD ADIB BOWO LAKSONO

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Bachelor Degree in Computer Engineering at Diponegoro University. Interesting and experience in Embedded System, IoT, and Programming such as PHP, Laravel, Arduino and Python. Experience in Electronic Schematic Designer using Altium.

## Work Experiences

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### URDC (Football Humanoid Robot) - Diponegoro University

Dec 2018 - Dec 2020

#### member - Head of Division in Electronic

Undip Robotic Development Center (URDC) Diponegoro University (Undip) is an organization to accommodate mechanical, electrical and programming student skills formed in July 2016.

- Design of Robot Electronic Parts
- Determining Components and Minimizing Robot Shape
- Research on Robotic Electronic Devices

### Undip TV - Diponegoro University

Feb 2022 - May 2022

#### Internship

Undip TV is Diponegoro University campus television under the auspices of Diponegoro University Public Relations which presents Diponegoro University academic community activities.

- Creating an Undip News Media Website with Laravel (Fullstack Developer)

### Department of Computer Engineering - Diponegoro University

#### Assistant Lecturer

In the Computer Engineering Department there are practicum courses. Practicum Assistants are taken from Computer Engineering students.

- Assistant - Digital Systems Practicum (2020)
- Assistant - Microcontroller Engineering Practicum (2021)
- Assistant - Peripheral and Interface Engineering Practicum (2021)
- Assistant - Advanced Digital Systems Practicum (2022)
- Assistant - Basic Computer and Programming Courses (2022)
- Assistant Coordinator - Control and Automation Engineering Practicum (2022)

### Diponegoro University - Diponegoro University

Feb 2022 - May 2022

#### Final Course Project

Doing a Final Assignment as a requirement for Graduating a Bachelor's Degree with a Project entitled "Designing a Tool for Hatching Stone Magpie Bird Eggs Based on Internet of Things Using Nodemcu Esp32 Microcontroller"

- Designing and Manufacturing Hardware Devices on the System Created
- Create a Monitoring Application Using the MIT App Inventor Builder
- Designing a Camera Publication Server from Local Server to Public Internet Using Ngrok and RaspberryPi

### PT Della Arka Mandiri (placed in PT Kalijaga Mandiri Sejahtera)

Jun 2023 - Present

- Jl. Empu Tantular No. 70-72 North Semarang, Semarang, Central Java, Indonesia

#### IT

PT Kalijaga Mandiri Sejahtera is a PJT (Consignment Services Company) company specifically for Indonesian migrant workers (PMI) in Indonesia.

- Create a PT Kalijaga Mandiri Sejahtera landing page website using Laravel 10 ( <https://cargoptkms.com> )
- Create a data processing bot in the Customs Manifest Module using python (efficient working time)
- Create an SI about outgoing and incoming mail archives using Laravel 10 ( <https://e-surat.cargoptkms.com> )
- Implementing a trucking website for package tracking using Laravel 10 ( <https://express.cargoptkms.com> )

## Education Level

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### SMK Negeri 2 Pati - Pati Regency, Central Java, Indonesia

May 2015 - May 2018

#### Electronics, 88.00/100.00

- Learn and get to know about Altium software
- Designing electronic circuits
- Learn and create about Amplifier learn to use an Oscilloscope

### Universitas Diponegoro - Semarang, Indonesia

Aug 2018 - Mar 2023

Bachelor Degree in Computer engineering, 3.73/4.00

- Learn Embedded System ( Arduino, Altium, Eagle, Xilinx, Matlab, Tinkercad, Thingspeak )
- Learn Software Programming ( C, C++, C#, Python, Java script, Java, Kotlin )
- Learn Database ( MySql, SQL Server, Maria DB, SQLite )
- Passed the National stage in the regional selection competition for the Indonesian Robot Contest 2020 (KRI 2020)
- Graduated with cumlaude honors

## Organisational Experience

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### Diponegoro Archery Club - Diponegoro University

Dec 2018 - Dec 2020

Staff Human Resource Division - Head of Division in Community Service

Archery organization whose members are students and the general public

- Person responsible of Familiarity Nigh UKM (2019)
- Supervise children's archery practice
- Registering Members

### DPA(Force Representative Council) - Diponegoro University

Dec 2019 - Dec 2020

Expert Staff of Legislative

## Skills, Achievements & Other Experience

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- **IT Support** 🏆 (2023): IT Support Google - Program Profesional Academy - Digital Talent Scholarship
- **Python Programming** 🏆 (2021): Python Cisco - Program Profesional Academy - Digital Talent Scholarship
- **PCB Design (Intermediate)**: Creating PCB Circuit Designs starting from 2017 using Altium Designer for related projects with Electronics.
- **Python (Advanced)**: Create servers, bots to make work easier, game bots.
- **C / C++ (Beginner)**: Creating costume library for IoT project.
- **PHP & HTML (intermediate)**: Creating a Front End and Back End website using PHP in Laravel.
- **Arduino (Advanced)**: Creating Project IoT using Arduino IDE
- **IoT (Intermediate)**: Creating Project use ESP32 for the microcontroller, using cloud server for save data using Thingspeak, and for mobile application use builder MIT App Inventor and Blynk
- **Category : Beginner > Intermediate > Advanced:**