

EDHO DWI TIRWANDA

June, 1997 | Male | Indonesian

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EXPERIENCE

PT. Astra Honda Motor – Karawang, West Java

July 2019 – Present

Software Engineer – Assets Management (Web Apps)

- Build a full-stack web application to allow users to manage and generate reports on the performance of assets or production machines, using React js, Material Ui on the front end and using Spring Boot (Java), MySql, Redis and JWT on the back-end.
- Designed and coded unit/integration testing using JUnit, Mockito
- Help the all teams in software and hardware installation, figuring and fixing the broken parts.
- Used DevOps, Agile Principles and Github CI/CD

Process Engineer – New Line Project

- Teaching and Maintenance ABB arm robot and all Machine on Production Line
- Make Operation Standard Instruction Operators on Production Line.
- Make Safety Instruction for painting area.
- Support leading and divide tasks for operators on engineering sample trial.
- Make improvements activity to increase production capacity and production quality

EDUCATION

State Polytechnic of Jakarta – Depok, West Java

September 2015 – August 2018

Associate's Degree - Electrical Engineering – Electronics Control – 3,41

Binus University – South Jakarta, Jakarta

March 2021 – Present

Bachelor's degree - Binus Online Learning - Computer Science – 3,46

ORGANIZATION

Robotic Teams – State Polytechnic of Jakarta

June 2015 – May 2018

Responsible for RND of ABU Robocon Robot.

Chief of Psychorobotic PNJ – State Polytechnic of Jakarta

June 2016 – May 2017

Responsible for manage all team and helping students who want to learn about how to make Robots

ACHIEVEMENT

Participant of National ABU Robocon Contest

July 2016

As a Manual Robot programming and Electrical Design.

Participant of National ABU Robocon Contest

June 2017

As a Manual Robot programmer and Electrical Design.

Participant of Pekan Kreativitas Mahasiswa Nasional (PIMNAS)

August 2017

As a Team Leader and Programmer

Title: Integrasi Sensor Ultrasonik Dan Bluetooth Pada Sistem Buka- Tutup Palang Busway

4th Place of National ABU Robocon Contest

June 2018

As a Manual Robot Programmer

ADDITIONAL

Technical Skills

- Back-End : Spring Boot (Java), Kotlin, NodeJs / Express, C, Rest API.
- Front-End : React Js.
- Database : MySql, PostgreSQL, Redis, MongoDB.
- Versioning : Git / Github.

- DevOps : Docker, Github CI/CD.
- Cloud : AWS.
- Solid Design Principle, SDLC/Agile, TDD.
- Microcontroller/Microcomputer: Atmega Series, Arduino Series, STM32 Series.
- Programmable Logic Controllers: Omron(CX-One), Schneider(SoMachine), Mitsubishi(GX Works2).

Training

- Dicoding: Cloud Practitioner Essentials (Belajar Dasar AWS Cloud)
- Build With Angga: Full Stack JavaScript Developer
- Amigoscode: Full Stack Spring Boot & React (PROFESIONAL)
- Build With Angga: Svelte JavaScript Developer

PROJECT

Assets Management

Present

Assets Management is a Web that is used to manage and monitor the availability of spare parts, tools and production machines so that they are always available when needed. This Web Asset Management also functions to generate production machine performance reports such as MTTR (Mean Time To Repair) and MTBF (Mean Time Before Failure).

- Tools : Spring Boot (Java), JWT, Swagger API, MySql, Redis, Docker, AWS, ReactJs, Material UI

Staycation

January 2021

Staycation is a web application to help people find a house, hotel, or apartment that can be used as a vacation spot

- Tools : ReactJs, Bootstrap Css, NodeJs / Express, Github.

Staycation Admin

January 2021

Staycation Admin is a web application to maintain and monitor the availability of houses, hotels or apartments on the Staycation website

- Tools : ReactJs, Bootstrap Css, NodeJs / Express, Github.

Integrasi Sensor Ultrasonik Dan Bluetooth Pada Sistem Buka Tutup Palang Pintu Busway

August 2017

This system is used to minimize traffic violations at intersections or accident-prone points on busway lanes. This system works by connecting the busway doorstop with the busway using a bluetooth, the busway doorstop will open automatically based on the signal given by the busway which is between 15 to 25 meters and will close based on the detection results from the ultrasonic sensor.

- Components : ATmega16, Arduino, Bluetooth, Ultrasonic Sensor and Motor Servo.
- Tools: Arduino Ide, C Arduino, CV AVR.

ABU ROBOCON 2018

June 2018

The theme comes from a traditional game in ethnic region of Vietnam, namely ném còn (throwing shuttlecock). The goal of the game is to throw the shuttlecocks through the ring at height. In Vietnamese culture, the game is about celebration and making friendship.

In the game, each team are given a few shuttlecocks and needs to design two robots, one manual and one automatic robot. The manual robot needs to hand the shuttlecocks to the automatic robot, which attempts to throw the shuttlecocks through the rings (unlike the traditional game, there are three rings at various heights in this game). The winner can be achieved by points, or by immediate KO if the robots successfully throw the shuttlecocks through three rings, and for the highest ring, the shuttlecock lands on a golden disk on the opposite side.

- Components : Motor PG45, STMicrocontroller 32, Arduino, Proximity Sensor, Photo Diode, Rotary Encoder, Joy Stick, Solenoid Valve, Pneumatic.
- Tools : Arduino IDE, C, STM32CubeMx