

Ihtifazhuddin Hawari

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PROFILE

Graduated in 2019 from Universitas Dian Nuswantoro Semarang (UDINUS) as Bachelor of Engineering, Majoring in Electrical Engineering with concentration Computer Engineering and graduated as Master of Engineering from Universitas Diponegoro. Currently as a Mechatronic Engineer at PT. Citra Langgeng Sentosa. Have main job to develop new product especially in automation and robotic. Have big interest in Artificial Intelligence developer and hardware development.

ACADEMIC QUALIFICATION

- 2021 – 2024 **M.T (Equivalent to M.Eng) in Electrical Engineering**
Department of Electrical Engineering, Faculty of Engineering, Universitas Diponegoro, Prof. H. Soedarto, Tembalang, Semarang, 50275, Indonesia
Thesis Project: Rainfall Forecasting in Semarang Barat using PSO-LSTM
Supervisor: Prof. Dr. Ir. Rizal Isnanto, S.T., M.M., M.T., IPU, ASEAN Eng
- Desing and imporving rainfall forecasting using LSTM algorithm and optimizing hyperparameter tuning with PSO
- 2015 - 2019 **S.T. (Equivalent to B. Eng) in Electrical Engineering**
Departement of Electrical Engineering, Engineering Faculty, Univerasitas Dian Nuswantoro Semarang (UDINUS), JL. Nakula 1 No.5 – 11, Pendrikan Kidul, Semarang, 50131, Indonesia
GPA: 3.41 / 4.00 with specialisation in Computer Engineering
Thesis Project: Rainfall Forecasting with Deep Learning [Grade AB]
Supervisor: Dr. Herwin Suprijono, M.T.
- Design and simulated a system for rainfall forcaseting with deep learning using LSTM model.

PUBLICATION

- **Convolutional Neural Network For Assisting Accuracy Of Personalized Clavicle Bone Implant Designs**
DOI: 10.11591/ijece.v14i3.pp3208-3219
- **Rainfall Forecasting Using Hybrid Learning Method**
DOI: 10.1109/isemantic63362.2024.10762287
- **Modelling of human cerebral blood vessels for improved surgical training: image processing and 3D printing**
DOI: 10.35882/jeemi.v7i1.583

NON-FORMAL EDUCATION

- 2019 - 2024 **Dicoding Indonesia**
- Basic Programming Python
 - Basic Data Visualization
 - Basic Machine Learning
- Digitalent 2020 KOMINFO**
- Python, CISCO
- DQLab Academy**
- Python for Data Scientist
 - Basic Matplotlib

- Basic Data Manipulation with Pandas

WORK EXPERIENCE

2024 - 2025

Mechatronics Engineer – New Product Development

PT. Citra Langgeng Sentosa (Infiniti Group)

- Developing modularity program. Using node-RED for PLC talking to server used in many projects.
- Developing communication between conveyor and robot. Using Node-RED for PLC to calling robot for doing task.
- Create stop program for collaborative robot using safety camera JAKA.
- Create signal rotary lamp as an indicator if robot through line for safety assessment.
- Developing PLC program for integrating between barrier gate and robotic software.

2022 – 2024

Laborant in Faculty Engineering

Departement of Electrical Engineering, Engineering Faculty, Universitas Dian Nuswantoro (UDINUS)

- Scheduling for teaching laboratorium
- Handle scientific study in department
- Helping capstone design process
- Helping publication and paper process
- Developing autosegmentor with U-net model for clavicle bone model
- Developing AI model for mall services based on chatbot and hand motion
- Developing building detection with Object Detection API for BECIKU
- Developing robot information based on voice recognition web app for stunting information
- Design PCB sensor for ROCAKU

2019 – 2022

Laboratory Assistant in Faculty Engineering (Internship)

Department of Electrical Engineering, Engineering Faculty, Universitas Dian Nuswantoro Semarang (UDINUS)

- Design PCB and developing electronic hand prosthetic
- Developing face mask detection system
- Helping lecturer research and course

2016 – 2024

Teaching Assistant for practical course

Department of Electrical Engineering, Engineering Faculty, Universitas Dian Nuswantoro Semarang (UDINUS)

- Basic physics
- Introduction of basic circuit analysis
- Electrical circuit
- Basic electronics
- Electric power system
- Problem solving through C language
- Industrial electronics
- Algorithm and Programming

COMPETENCE

2022 - 2025

PLC Mitsubishi from Lembaga Sertifikasi Profesi Elektronika Indonesia (LSP-EI)

- PLC Programming Technician
- Planning Engineering for Programming Software and SCADA System

AWARDS AND FUNDING

December 2019

Top Ten Team finalist in Rlot (Republic of IoT) Challenge 2019, This event was held by Ministry of Communication and Information of the Republic of Indonesia (KOMINFO) and Makestro

- November 2018 **1st Consolation Winner in Student National Competition 2018: Industry 4.0**, this event was held by ITB – Bandung, Indonesia
- November 2017 **2nd Place Winner in National Scientific Writing Competition MEENOLOGY 2017**, this event was held by POLINES – Semarang, Indonesia
- 2018 - 2019 **Achievement scholarship for 1 Year Education, Dian Nuswantoro Foundation**
Scholarship for students in UDINUS who get achievement.

SKILLS

- Mother Tongues Bahasa Indonesia, Bahasa Jawa (Javanese)
- Other Language(s) English
- Relevant Technical Skills Programming Language: C/C++, Python
Embedded Systems: Arduino, ESP, Raspberry Pi
Document Preparation: Microsoft Office
Design: CorelDraw, Photoshop
PLC: Mitsubishi, Omron

ORGANIZATION EXPERIENCE

- Juni 2016 – April 2018 **Electrical Engineering Student Association**
- Internal Public Relation, Juni 2016 – April 2017
 - Leader, Juni 2017 – April 2018
- Juni 2017 – April 2018 **Dinus Robotic Club**
Head Division of Fire Fighthing Division
- Juni 2017 – April 2018 **IEEE Student Branch UDINUS**
Member
- Juni 2019 – April 2020 **“Penalaran” Community**
Head Division of Graphic Design Division