

Abdullah Al Masyhur

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SUMMARY

I am a Fresh Graduate from Robotics and Artificial Intelligence Engineering at Airlangga University who has an interest in the fields of Robotics, AI and IoT. I have developed my expertise in this area through several projects both on and off campus. I am interested in developing technology that can help solve problems using the knowledge I have learned. I always like to learn new things and enjoy creating impactful projects that combine technology and innovation. I thrive on collaboration, constantly seeking opportunities to meet new people and contribute to solutions that can enhance the lives of others.

EXPERIENCE

Universitas Airlangga – Surabaya

Teaching Assistant of Practical Electronics RKD203 (February 2024 – July 2024)

- Assist in teaching and explaining electronic concepts to 31 students.
- Preparing and organizing lab equipment for practical sessions, ensuring all tools and materials are ready and functioning properly.
- Grading assignments and lab reports.

PT Aria Agri Indonesia – Jakarta Utara, DKI Jakarta

Research and Development Drone Intern (August 2023 – December 2023)

- Maintenance USV (Unmanned Surface Vehicle) to measure the height of river water using a sonar sensor
- Contributed to the design and development of a new USV prototypes for water sampling based on PixHawk.

Bangkit Academy 2023 By Google, GoTo, Traveloka – Online

Studi independen Machine Learning Path (February 2023 – July 2023)

- Learn about the main concepts and applications of artificial intelligence, especially in Machine learning and Deep learning using TensorFlow from basics to the deployment stage.
- Creating a real project that collaborates 3 fields, namely cloud computing, machine learning, and mobile development to create the 'HelpMeow' application, an application designed to save stray cats which is equipped with a cat type classification feature using CNN.
- Learn 900 hours Hard skill and soft skill and graduated with the prestigious title of Distinction Graduate (ranking within the top 10% of graduates from 5000++ students)

Community Service Hydroponic Nutrition Automation – Gempol, Pasuruan

Programmer (March 2023 – May 2023)

- Create an Arduino program to automate hydroponic nutrition and screen display using an ESP32 microcontroller so that it is ready to be developed into IoT.
- Participate in outreach activities to the public regarding hydroponics using PLTS and hydroponic nutrition automation tools.

PT Industri Kereta Api – Madiun, Jawa Timur

Product Development Intern (January 2023 – February 2023)

- Internship at PT Industri Kereta Api involved working on a 3D design project for a CANbus-based light control unit enclosure.
- Gained knowledge and practical experience in CANbus-based light control technology and its application in enclosure design.
- Collaborated with a team to successfully complete the project and enhance 3D design skills while gaining valuable industry experience.

Plt HIMA Teknik Robotika dan Kecerdasan Buatan 2022 UNAIR – Surabaya, Indonesia

Event organizer division member (March 2022 – December 2022)

- Assist other divisions in carrying out their respective work programs by preparing events so that the event runs as desired.

Sistem Informasi Universitas Terbuka

Tutor assistant (October 2021 – December 2021)

- Responding to student discussions online so that students can find out the response from the results of the exercises given.
- Looking for enrichment material that is in accordance with the main material given that week so that it can be an additional learning resource for students
- Correcting student assignments submitted online which are used as student grades.

ROTATION 2021 Universitas Airlangga – Surabaya, Indonesia

Head of drafting division (July 2021 – November 2021)

Rotation (Robotic and AI Freshmen Preparation) is an annual introduction to Robotics Engineering and Artificial Intelligence study program. This activity aims to introduce new students of this study program to the world of lectures, especially in the fields of robotics and artificial intelligence.

- Lead 6 people in the drafting division to discuss and determine the concept, rundown, and theme of the rotation event
- Make technical and implementation instructions for the committee during the event as a guide for the committee during the event

KRTI (Kontes Robot Terbang Indonesia) VTOL Division – Surabaya, Indonesia

Participant, Electric team (June 2021 – November 2021)

- Design and develop VTOL drone electrical systems.
- Coordinate with the software division for control development.
- Carrying out testing and troubleshooting electrical systems.

EDUCATION

Universitas Airlangga (2020 - 2024)

S1 Robotics and Artificial Intelligence engineering - GPA 3.59/4.00

Related coursework : CAD, OOP, Embedded System and IoT, Robotic Experiment, Machine Learning, Control System, Sensor & Actuator, Mobile Robot, Autonomous Vehicle.

SKILLS

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|---------------------------------------|---------------------------|
| • Work as a team | • C, C++, Python |
| • Time Management | • SQL |
| • Leadership | • Arduino, IoT (ESP32) |
| • Critical thinking | • Git & GitHub |
| • Electrical (soldering, wiring, PCB) | • CAD (Autodesk Inventor) |

Achievement

- BANGKIT Distinction graduate (ranking within the top 10% of graduates from 4000+ students)

License and certificate

- Machine Learning Specialization - Coursera (May 2023)
- DeepLearning.AI TensorFlow Developer Specialization - Coursera (May 2023)
- Structuring Machine Learning Projects - Coursera (May 2023)
- TensorFlow: Data and Deployment Specialization - Coursera (May 2023)
- Analyze Data to Answer Questions - Coursera (March 2023)
- Foundations: Data, Data, Everywhere - Coursera (March 2023)

Volunteer

Data Annotator for Sentiment Analysis project on Indonesia AI (June 2022)

Annotating peoples’ perspective about offline school during pandemic on twitter as many as 351 tweets which were used for sentiment analysis research

Speaker of Webinar “The Rise of Robotics in Industrial 4.0” TRKB UNAIR (February 2021)

Sharing experiences and reasons to enter Robotics Engineering and Artificial Intelligence Universitas Airlangga which was attended by 100+ participants online via zoom.