

M Alief Faisal Hakim

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EDUCATION

Universitas Airlangga (UNAIR) | Robotics and Artificial Intelligence Expected Graduation: June 2025
CGPA: 3.65

Courses: Control Systems, Sensors and Actuators, Embedded Systems and IoT, Machine Learning, Computer Vision, NLP.

Universiti Malaya (UM) | Short-Term Student Mobility Participant Aug 2023
Courses: AI for Everyone, Practical Applications of Drones.

EXPERIENCE

Robotics Trainer | Robotis Kidslab Surabaya Aug 2022 – Present
Robotis provides robotics training for kids in primary through upper secondary levels. Currently running the robotics club at Xin Zhong and Little Sun School Surabaya.

- Taught coding concepts to 35 lower secondary students through engaging club activities.
- Strengthened STEM and problem-solving skills via hands-on projects.
- Successfully guided students through 5+ robotics and tech competitions.

Programmer | Komunitas Robotika Universitas Airlangga Dec 2021 – July 2023
Research and development team for Kontes Robot Indonesia (KRI) and Kontes Robot Terbang Indonesia (KRTI).

- Improving the control algorithm of robots, focusing on movement, communication, and vision processes through the implementation of PID.
- Collaborating with a cross-functional team and actively participating in regional and national robot competitions.

COURSE AND CERTIFICATION

AI Mastery Bootcamp | Ruangguru 2023
Courses: Python, Data Preprocessing, Math: Linear Algebra & Calculus, ML Fundamentals, Deep Learning with PyTorch, Database and SQL Programming, CNN, Computer Vision, GPT 4, Stable Diffusion, NLP, ML API's.

Machine Learning | JCOp ML 2023
Courses: Supervised Learning, Deep Learning

Massive Online Open Course (MOOC) | Universitas Indonesia 2021
Courses: Basic Programming I, Discrete Mathematics I.

PROJECT AND COMPETITION

2nd Winner of Micro:Bit Innovative Idea Challenge | CODESEA & YSEALI Jun 2022
Achieved the 2nd place out of 75 participants from 5 ASEAN countries. Project Title: "Anti-Sleepy Book Cover".

3rd Winner of Mecbot National Robotics Competition | Univ. Sanata Dharma & Kemenko PMK RI Aug 2021
Secured 3rd place in the transporter category, competing with students from over 15 universities across Indonesia.

CO-CURRICULAR AND VOLUNTARY ACTIVITY

Food Rescuer | Garda Pangan Surabaya Jan 2023 – Present
Garda Pangan is a food bank program that aims to tackle the issue of food waste.

- Sorting, repackaging, and distributing surplus food to 150+ families in various underprivileged settlements.

International Student Buddy | Airlangga Global Engagement (AGE) Aug 2021 – May 2022
AGE handles international stuff—partnerships, research projects, and global opportunities for students and faculty.

- Organized over 4 cultural immersion activities for 87 international students, including visits to traditional markets and museums, trying Indonesian food, and attending various cultural events.
- Taught the Indonesian language to 25 international students residing in UNAIR dormitory.

Programming Skills: C/C++, JavaScript/TypeScript, Python, Matlab.

Other Skills: Computer Aided Design (CAD), Electrical Circuit Design, Arduino, Micro:bit, STM32.

Language: TOEFL ITP 587, Duolingo English Test 130 (Equivalent to IELTS 7, TOEFL IBT 98-103).