

# M Alief Faisal Hakim

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## EDUCATION

**Universitas Airlangga (UNAIR) | Robotics and Artificial Intelligence** **Expected Graduation: June 2025**  
GPA: 3.64/4.00

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

Activities: Awardee of Bank Indonesia Unggulan Scholarship.

**Universiti Malaya (UM) | Short-Term Student Mobility Participant** **Aug 2023**

Courses: AI for Everyone, Practical Applications of Drones.

## EXPERIENCE

**Research Intern | Badan Riset dan Inovasi Nasional (BRIN)** **Jan 2024 – Feb 2024**

BRIN is a government agency responsible for research and innovation. One of its research centers specializes in the field of intelligent mechatronics, located at KST Samaun Samadikun, Bandung.

- Learned mobile robot mapping, planning, and control. Improved understanding of utilizing the Robot Operating System (ROS), Linux, and Docker on NVIDIA Jetson AI.
- Assisted researchers in developing an Intelligent Robot Service for Human Assistance and Object Manipulation using LLM, ROS, and Deep Learning.

**Robotics Trainer | Robotis Kidslab Surabaya** **Jul 2023 – Dec 2023**

Robotis provides robotics training for students from primary through upper secondary levels. I used to be a teacher at the robotics club at Xin Zhong and Little Sun School in Surabaya.

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

**Programmer Division | Komunitas Robotika UNAIR (Kombo UA)** **Dec 2021 – Jul 2023**

Kombo UA is a community that accommodates students with an interest in the field of robotics. It also represents Universitas Airlangga in national and international robotics competitions.

- Collaborated with team members to develop controls and movement of robots.
- Organized programming workshops and provided assistance to new team members.

## COURSE AND CERTIFICATION

**Bangkit Academy | Google, GoTo, Traveloka** **Feb 2024 – Present**

Bangkit is an exclusive academy led by Google, GoTo, and Traveloka, designed to prepare students with in-demand skills and tech certifications.

Courses: Google IT Automation with Python, Google Data Analytics Specialization, Machine Learning Specialization DeepLearning.AI TensorFlow Developer Specialization, DeepLearning.AI Tensorflow Data and Deployment.

**AI Mastery Bootcamp | Ruangguru Engineering Academy (REA)** **Dec 2023 – Mar 2024**

REA provides an intensive 12-week AI online bootcamp program for which I received a full scholarship.

Courses: ML Fundamentals, Deep Learning, Database and SQL Programming.

**Massive Online Open Course (MOOC) | Universitas Indonesia** **Sep 2021 – Dec 2024**

MOOC is a one-semester, non-credit course offered by the Faculty of Computer Science, University of Indonesia.

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 | Sanata Dharma University** **Aug 2021**

Secured 3rd place in the transporter category, competing with students from over 15 universities across Indonesia.

## CO-CURRICULAR AND VOLUNTARY ACTIVITY

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### **Food Rescuer | Garda Pangan Surabaya**

**Jan 2023 – Present**

Garda Pangan is an NGO and food bank that focuses on distributing surplus food to address food waste and achieve zero hunger in Surabaya.

- Sorting and repackaging surplus food in a hygienic way.
- Distributing food to 450+ beneficiaries 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, Python, SQL.

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

**Language:** TOEFL ITP 587, Duolingo English Test 130 (Equivalent to IELTS 7).