

LEONARDO FAJAR MARDIKA

+6285727931988 | fmleonardo107@gmail.com | <https://www.linkedin.com/in/leonardo-fajar-mardika/> | <https://leonardofm73.github.io/>
Surakarta

As a Robotics and Artificial Intelligence graduate, I bring a dynamic skill set in designing cutting-edge computer vision systems, advanced machine learning algorithms, and versatile robotic manipulators. Driven by a passion for crafting intelligent systems that revolutionize automation and efficiency, I am committed to pushing the boundaries of technology. Eager to stay at the forefront of innovations in robotics, IoT, and AI, I thrive on collaboration with visionary professionals to create impactful projects that will shape the future of our industry.

Work Experiences

Komunitas Robot UNAIR - Surabaya, Indonesia

Sep 2020 - Aug 2021

Lead Programmer

- Built 1 robot that was used for the KRAI competition and reached the finals.
- Created a programming algorithm that was used to complete the required tasks.
- Created CAD design of DC motor and analyzed the electrical components needed for programming.

Badan Riset dan Inovasi Indonesia - Bandung, Indonesia

Jul 2023 - Dec 2023

Internship

- Collaborate with researchers and be one of the contributors in one of the research papers
- Assisted research in the form of creating a programming model and a molding design for the sensors used.
- Created a smart irrigation mechanism used by researchers in collaboration with other campuses

Education Level

Universitas Airlangga - Surabaya, Indonesia

Sep 2020 - Jul 2024

Bachelor Degree in Bachelor of Robotics and Artificial Intelligence, 3.74/4.00

- A finalist of the KRAI robot competition (Kontes Robot AbuRobocon Indonesia)
- Served as class leader of computer vision course
- Completed several class projects such as a robotics experiment in the form of a mobile robot elevator which won second place.

Organisational Experience

Komunitas Robot UNAIR - Surabaya, Indonesia

Sep 2020 - Jul 2022

Programmer

The Airlangga University Robotics Community is a vibrant group of students and faculty dedicated to robotics technology, known for innovation and collaboration. They engage in diverse projects across education, environment, industry, and health, and participate in national and international competitions, enhancing their regional reputation. The community promotes knowledge sharing through workshops and seminars, fostering a supportive environment that attracts students interested in robotics from Airlangga University and beyond.

- Assisted in analyzing the robot program for 1 main robot used in the competition.
- Participated as part of a 4-person core team in one of the competitions.
- Assisted in the development of a new 4-person programming team

Kerohanian Muda Katolik - Surabaya, Indonesia


Aug 2022 - Dec 2022

Companion

Catholic UKM, or KMK Santo Aloysius Gonzaga, is a student activity unit at UNAIR that focuses on spirituality and supports Catholic students. Its activities extend beyond worship, promoting the development of students' interests and talents while benefiting the surrounding community, regardless of ethnicity, religion, or race.

- Guided a group of 9 new UNAIR Catholic students in getting to know the Catholic Spirituality UKM.
- Supervising a total of 99 participants so that all activities carried out by participants run smoothly.
- Making a meeting schedule in a month with a total of 4 meetings

Skills, Achievements & Other Experience

- **Achievements**  (2021): KRAI Robot competition finalists
- **Soft Skills** (2024): C/C++ (Moderate), Python (Advanced), ROS (Beginner)
- **Hard Skills** (2024): CNC, 3D Printing, Mechanical skills
- **Interest** (2024): Reading, Coding, Robotics and AI Stuff