

Lukman Harahap

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SUMMARY

A final-year Electrical Engineering student with over two years of experience in robotics, automation, and machine learning. Skilled in programming (Python and C/C++), data analysis, and computer vision. Proven ability to lead and collaborate in team settings, with achievements such as reaching the quarter-finals of a national robotics competition and developing advanced autonomous systems. Passionate about leveraging technical expertise to drive innovation in AI, IT, and digital transformation.

SKILLS

C/C++ | Python | SQL | Microsoft Excel | Machine Learning | Artificial Intelligence | TensorFlow | YOLO | OpenCV
Problem-Solving | Critical Thinking | Project Management | Team Collaboration | Communication

EXPERIENCE

Brawijaya Robotics Team — Robotics Software Engineer

August 2022 - August 2024 | Malang City, East Java

- Designed and implemented autonomous robotic systems using advanced control techniques and computer vision with 90% object detection accuracy using Python, OpenCV, and YOLO.
- Enhanced system performance by integrating real-time monitoring and advanced control systems.
- Collaborated with a 6-person team to resolve compatibility issues and optimize workflows.
- Achieved quarter-finalist position in the national competition among 32 university teams.

EDUCATION

Brawijaya University — Electrical Engineering (GPA: 3.5/4.0)

August 2021 - Present | Malang City, East Java

Robotics, Artificial Intelligence, Automation, Internet of Things (IoT), Microsoft Office.

Bangkit Academy — Machine Learning Learning Path

August 2023 - January 2024 | Online

Machine Learning, Artificial Intelligence, Data Analysis, Data Structures, SQL.

PROJECTS

HoaXGY — Hoaxes Detection for Android Application

- Developed and implemented Natural Language Processing models for fake news detection, achieving 85% accuracy.
- Designed and integrated the user interface and machine learning model into an Android platform.
- Optimized data pipelines, enhancing the efficiency of decision-making processes.

Air Quality Analysis

- Developed a comprehensive data analysis pipeline to evaluate air quality.
- Utilized Python libraries such as Pandas, Matplotlib, and Seaborn for data visualization and insights.

CERTIFICATIONS AND AWARDS

[Bangkit Academy](#)

[TensorFlow Developer Certification](#)

[Kontes Robot Indonesia 2024 Finalist](#)