



## Novebri Tito Ramadhani

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I am currently at fifth semester student of Mechatronics Engineering Education study program from Yogyakarta State University. I am a discipline and hardworking person, and I'm interested learning a new things to improve my abilities and experience. I have experience with robotics and machine learning such as Tensorflow, Scikit-Learn, ROS, Python, and C. I'm interested in machine learning, robotics, IOT, and automation technology

### EDUCATION

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#### UNIVERSITAS NEGERI YOGYAKARTA

Bachelor of Engineering

Yogyakarta

2021 – 2025 (expected)

Major in Mechatronics Engineering Education ; Cumulative GPA: 3.68 / 4.00 ☒

- Relevant Coursework: Embedded programming, Electronic, PLC, Machine learning, 3D modeling, Computer Network
- Software : Proteus, Visual Studio Code, Arduino IDE, CX-Programmer, Zeliosoft, Inventor, Cisco packet tracer, MySQL
- Project : Computer vision guided autonomous drone, IOT E-KTP attendance system for school, Mobile Legend player detection NLP

#### BANGKIT ACADEMY 2023 BY GOOGLE, GOTO, TRAVELOKA BATCH 2 ☒

Jakarta

Machine Learning Cohort

Aug 2023 – Jan 2024

- Relevant coursework : Python, Data analytics, ETL ,Machine learning, ML deployment, Formal English
- Software : Visual Studio Code, BigQuery, Collab, Docker, Tableau, Figma, Notion
- Project : Brain Tumor Classification based on MRI, Bloomy app : fish grading CNN, DNN price recommendation, and DNN sailing decision

### PROJECTS

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#### Computer Vision Guided Autonomous Drone ☒

Sep 2023

- Created and developed object detection using OpenCV in Jetson Nano on a drone to track pick able objects on the ground.
- developed odometry for drone based on computer vision data with ROS framework to pick an object on ground with 90% pick accuracy

#### Brain Tumor Classification based on MRI ☒

Oct 2023

- Collected and cleaned 3096 MR images dataset that consist of 3 types of brain tumors and healthy brain
- Developed a CNN brain tumor classification model on MRI that accurately classifies 3 types of brain tumors and healthy brain with an 99% accuracy rate.
- Achieved 100% accuracy on testing and validation phase on classification model

#### Marine Products Grading System CNN ☒

Nov 2023

- Collected and cleaned 2205 marine product images dataset that consist of 3 types of grading (A, B, C)
- Developed a CNN marine products grading model that accurately graded 3 types of grading with an 99% accuracy
- Achieved 96% accuracy on validation and testing phase on grading model
- Deployed a model on API service using Flask and docker as containerization

### ORGANIZATIONAL EXPERIENCE

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#### UNY Robotics

Yogyakarta

Autonomous Drone Developer, Vertical Take-off and Landing Division

Jul 2022 – Present

- Successfully built and developed script for autonomous drone with ability to detect object and fly indoor and outdoor autonomously
- Contributed to winning championships at KRTI regional level and FIRA at international level as lead programmer.

### ADDITIONAL

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**Technical Skills:** Deep learning(advanced), statistical analysis, electronics, embedded programming and predictive modelling

**Languages:** Fluent in Indonesian, Advanced in English (UNY Protefl score 527/670) ☒

**Certifications & Training:** Bangkit Academy machine learning course by Google, GoTo, and Traveloka 2023 ☒

**Awards:** 1st runner up FIRA Air Simulcup 2022 VTOL division, Outstanding student award in the field of reasoning 2022, 1<sup>st</sup> runner up Indonesian aerial robotics contest regional B 2023, and top 8 Indonesian aerial robotic contest national 2023 ☒

## **REFERENCES**

Name : Sigit Yatmono, ST., M.T.

Position : Head of Mechatronics Education Engineering Study Program

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Name : Admin Panitia Pusat Dikti Puspresnas

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Name : Riana Safitri

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