

Muhammad Raditya Giovanni

☎ 080-2371-7828
📧 mraditya01

✉ mradityagio@gmail.com
🏠 mraditya01.github.io

🌐 mradityagio

Education

2019 – Present

📖 Bachelor of Engineering, Aerospace and Mechanical Engineering

Undergraduate Researcher in Signal Processing Lab. 🔗

Thesis title: *Anomalous Sound Localization and Classification in Urban Environments for Mobile Autonomous Vehicles*.

Research Publications

Conference Proceedings

- 1 M. R. Giovanni, A. Carballo, K. Ohtani, and K. Takeda, “**Anomalous Sound Localization and Classification in Urban Environments for Mobile Autonomous Vehicles**,” in *7th International Symposium on Future Active Safety Technology toward zero traffic accidents. (FAST-ZERO’23)*, Kanazawa, Japan, 2023 🔗.

Projects

Masked Audio Reconstruction using U-Net for Anomaly Detection | 🔗 Link | Python, TensorFlow

- Created an optimized U-Net model to calculate the anomaly scores by calculating the reconstruction errors of frequency mask mel-spectrograms, leading to the precise identification of anomalies in the data.

Arduino Powered GPS Way point Autonomous Robot | 🔗 Link | Arduino, C

- Constructed an autonomous robot capable of navigating predefined GPS waypoints while effectively evading obstacles. The project demonstrated a cohesive integration of various Arduino modules, including a compass, mini GPS, magnetic sensor, ultrasonic sensor, and Bluetooth module.

Group Project: Ball Tracking on Uneven Surface | 🔗 Link | Python, OpenCV

- Organized the allocation of responsibilities among peers within two pivotal committees: programming and design. Spearheaded and guided the programming team, harnessing OpenCV module to proficiently identify and track a ball through adept utilization of color selection and background subtraction techniques.

Skills

Languages 📖 Strong reading, writing and speaking competencies for English, Bahasa Indonesia.

Coding 📖 Python, C/C++, HTML, css, JavaScript, JavaScript,SQL, L^AT_EX, MySQL

Honor and Awards

2019-2023 📖 **MEXT Scholarship**, 120,000 yen monthly scholarship for undergraduate students.

Organization

2021-2022 📖 **Indonesian Student Association Japan** 🔗
Member of Media and Website

2019-2021 📖 **Indonesian Student Association Japan - Nagoya Area** 🔗
Head of Graphics and Design

2019-2022 📖 **Nagoya University Foreign Student Association (NUFSA)** 🔗
Head of Graphics and Design