



Adrian Ramdhany

AWSM Tech House - Tech Lead
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Universitas Negeri Yogyakarta

Profile

Mechatronics Engineering student and Tech Lead with a proven track record in developing AI-driven systems, commercial SaaS products, and scalable IoT architectures. Experienced in managing cross-functional teams and complex digital deployments, from algorithmic trading systems to large-scale cultural events. Passionate about bridging advanced engineering with creative problem-solving, hardware-software integration, and user-centric design to create high-impact solutions.

Education

Universitas Negeri Yogyakarta, Sleman
Bachelor of Mechatronics Engineering Education | GPA 3.78/4.0 | 2022 - Present

Experiences

AWSM Tech House | Founder & Tech Lead

- Dec 2025 - Present
- Leading a digital agency specializing in full-stack development, software, payment gateway and AI integration.
 - Managing cross-functional project handovers, client negotiations, and technical roadmaps for software applications.

Solo Japanese Festival #2 x CV. TWD (Lokananta Bloc) | Stage Manager & Tech Lead

- Dec 2025 - Feb 2026
- Engineered and deployed a digital ticketing system with real-time QR Code validation, handling high-volume transaction data with high-traffic.
 - Acted as the core technical bridge, managing stage operations and seamless execution under strict deadlines.

Djarum Foundation Scholarship | Awardee

- Dec 2024 - Dec 2025
- Selected for a prestigious national scholarship program emphasizing leadership development and soft skills.
 - Awarded 1st Place in National Character Building by demonstrating strong problem-solving and teamwork capabilities.

DBS Foundation Coding Camp | Scholarship Awardee

- Feb 2025 - July 2025
- Selected for an intensive technical scholarship focused on Machine Learning, AI and Data Processing.
 - Mentored by industry experts to bridge quantitative analysis with scalable software development principles and business capability.

SMK Muhammadiyah 3 Yogyakarta | Robotics & Internet of Things Instructor

- Sep 2025 - Nov 2025
- Instructed comprehensive courses on Robotics Systems and IoT.
 - Evaluating technical projects for strict adherence to hardware wiring guidelines and coding standards.

Creative Media, ARJUNA Yogyakarta

- Dec 2024 to Dec 2025
- Managed digital publication, design, and documentation for scholarship organization initiatives.
 - Edited high-quality video and photographic content to enhance social media presence and organizational branding.

Project and Technical Experience

UNIOT (Internet of Things Learning Platform) | Lead Developer

- Jan 2026 - Present
- Architected a self-hosted IoT platform using WebSocket, MySQL, and JavaScript to replace third-party services like Blynk/Firebase, ensuring low-latency real-time data transmission in Local Area Network of Mechatronics Laboratory.

AWSM AI Clipper (awsmaiclip.store) | Full-Stack Developer

- Mar 2026 - Present
- Developed and successfully launched a commercial AI-powered media processing application.
 - Engineered the complete product lifecycle from AI model integration to deploying a scalable, user-facing web platform.

Narastock | AI Developer & Data Analyst

- Feb 2025 - Jul 2025
- Developed an AI-driven stock market analysis tool to simplify predictive modeling for retail investors using Python and Machine Learning algorithms.
 - Engineered robust data pipelines to clean historical datasets and conducted rigorous hyperparameter tuning to optimize model accuracy.

M Home Studio | Sound Engineer & Music Director

- Dec 2024 - Sep 2025
- Served as the sound engineer and music director for the band FlowFist, managing live recording setups, BPM tracking, and audio mixing.
 - Bridged technical audio engineering with creative musicality to produce high-quality studio tracks.

Smart Agricultural Defense System (National Research Grant PKM-PI) | Hardware & Programmer

- 2024
- Designed and deployed a smart electric fence and automated trap system to mitigate long-tailed macaque pest intrusions for the Ngudi Makmur farming group.
 - Integrated microcontroller logic with high-voltage deterrents and safety monitoring systems to successfully increase agricultural productivity.

UNY Robotics Team | Robotics Programmer

- Dec 2022 - Dec 2024
- KRBAI (National Finalist 2024): Developed control systems and sensor integration for underwater robotic platforms to navigate complex fluid environments.
 - KKCTBN (National Finalist 2023): Engineered autonomous navigation logic for a Tourism Surface Vessel (ATSV), focusing on real-time obstacle avoidance and path planning.

EcoSonic (National Research Grant PKM-KC) | Hardware & Programmer
2023

- Developed an IoT-based vibration detection system to identify destructive fish bombings, aiming to prevent marine ecosystem damage.
- Engineered underwater acoustic sensors and real-time data transmission architecture for rapid environmental monitoring.

KIBO Robot Programming Challenge (JAXA x NASA) | Programmer
Dec 2022 - Dec 2023

- Programmed autonomous navigation algorithms and logic for the Astrobee robot, effectively controlling its movement inside the International Space Station (ISS) simulation environment.

Skills

Language : Bahasa Indonesia (Native), English (Intermediate), Japanese (Beginner).
Programming & Tech : Python, JavaScript (React), C++, C#, MySQL, WebSocket, AI Integration, Machine Learning, IoT Architecture.
Design & Tools : Figma, Linux Ubuntu, Git/GitHub, Fusion 360, Proteus, Google Colab, Kaggle, Arduino IDE, Visual Studio Code.
Business & Leadership : Product Launch (SaaS), Technical Leadership, Algorithmic Trading, Event Management.
Creative & Audio : CapCut, Kdenlive, Premiere Pro, Photoshop, DAW Audio Reaper, FL Studio, Amplitube

Achievements & Certifications

Funded Quantitative Trader (\$40.000), QTFunded
2026

1st Place - National Character Building, Djarum Foundation
Dec 2025

Machine Learning Developer Certificate, DBS Foundation Coding Camp
Apr 2025

Finalist National Kontes Robot Bawah Air Indonesia (KRBAI), Pusat Prestasi Nasional
2024

National Research Grant Recipient (PKM-KC & PKM-PI), Ministry of Education, Culture, and Technology (Kemendikbudristek)
2023 and 2024

Finalist National Autonomous Tourism Surface Vessel (ATSV), Pusat Prestasi Nasional
2023

1st Place International KIBO Robot Programming Competition, UNOOSA, JAXA
2023