



# RASYADWA ARSYA IRNANTYANTO

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An Information Technology student at Universitas Gadjah Mada and a certified IEEE Student Member. Currently serving as a student volunteer in a clean water infrastructure project—a multi-stakeholder initiative under the IEEE Tech4Good program—in collaboration with PT Telkom Indonesia and various engineering departments at UGM. The project combines rainwater harvesting, PDAM integration, solar energy, and IoT automation to address water scarcity in rural areas. Actively involved in the revitalization of the IEEE Student Branch at UGM, with a strong drive to bridge academic insight with sustainable tech-based solutions. Currently exploring the intersection of technology and strategy, with growing interest and experience in full-stack development and product management, aiming to build scalable, human-centered digital solutions.

## Work Experiences

**IEEE Tech4Good – UGM x PT Telkom Indonesia - Gunung Kidul, Special Region of Yogyakarta, Indonesia**

Jan 2025 - Present

*Student Volunteer*

A cross-sector initiative under IEEE's Tech4Good program, uniting Universitas Gadjah Mada and PT Telkom Indonesia to deploy sustainable, technology-driven solutions for rural communities. The program focuses on leveraging engineering, information technology, and social innovation to tackle infrastructure challenges in underdeveloped regions of Indonesia.

## Education Level

**Universitas Gadjah Mada - Bulaksumur, Depok, Sleman Regency, Special Region of Yogyakarta, Indonesia**

Aug 2024 - Aug 2028 (Expected)

*Bachelor of Information Technology, 3.12/4.00*

- Selected for the national stage of the Indonesian Student Creativity Program (PKM-KC) with a score of 675/700 in the internal UGM selection. Contributed as the full-stack developer in a multidisciplinary team designing an early detection device for Bronchopneumonia in toddlers, integrating machine learning and web-based visualization. Despite starting with no prior experience, led the development of a functional prototype platform that communicates real-time health data between hardware and a web interface. The project focuses on health accessibility and early diagnosis using AI-assisted respiratory monitoring.

**SMAN 1 Kendari Barat - Kendari, Sulawesi Tenggara, Indonesia**

Apr 2021 - Feb 2024

*Senior High School, Science Major, 94.96/100.00*

- Finalists of the KIHAJAR STEM 2022 FINAL STAGE competition representing southeast Sulawesi

## Organisational Experience

**Technocorner - Sleman, Special Region of Yogyakarta, Indonesia**

Oct 2024 - Jun 2025

*IoT Technical Staff*

Technocorner is an annual technology-based event organized by the Electrical Engineering and Information Technology Student Family, Faculty of Engineering, Universitas Gadjah Mada, which is expected to build a creative and competitive next generation of the nation.

- Served as IoT Technical Staff for Technocorner UGM 2025, supporting the preparation, testing, and on-site technical operations of IoT-based competition modules to ensure a smooth and fair contest execution.

**NESCO UGM - Sleman, Special Region of Yogyakarta, Indonesia**

Oct 2024 - Apr 2025

*Administrative Staff*

NESCO (National Electrical Power System Competition) is an annual event by students of Universitas Gadjah Mada. It features a competition and a national seminar focused on solving challenges in the field of electrical power systems.

- Assisted in managing internal documentation, scheduling, and correspondence for NESCO UGM 2025, ensuring smooth coordination across departments and timely execution of administrative tasks.

**FIND IT! UGM - Sleman, Special Region of Yogyakarta, Indonesia**

Oct 2024 - Apr 2025

*UX Technical Staff*

FIND Innovations and Discovery IT is a national level competition in the field of Information Technology. FIND IT! consists of two events, webinars, and various competitions that encourage innovation in the digital era.

- Contributed as UX Technical Staff for FIND IT! UGM 2025 by supporting the design and evaluation of user interfaces for competition platforms, ensuring intuitive navigation and improved user experience for participants and judges.

**ENFORIAN 2024 - Sleman, Special Region of Yogyakarta, Indonesia**

Sep 2024 - Dec 2024

*Vice Head Production ENFORIAN 2024*

ENFORIAN 2024 is a large-scale awarding and theatrical musical event designed and executed by over 250 students from DTETI UGM. Serving as the final celebration of the department's student integration and development program, the event combines performance art, production design, and community recognition to strengthen identity, creativity, and unity among first-year students. It represents a unique tradition that blends formal recognition with artistic expression in a student-led showcase.

- Played a key role in managing technical and production aspects of the event, coordinating logistics and execution with the production lead. Collaborated across divisions to ensure seamless teamwork, sharpening project management and problem-solving skills in a fast-paced environment.

## Skills, Achievements & Other Experience

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- **Projects** (2025): Collaborated with PT Telkom Indonesia and multiple engineering departments at Universitas Gadjah Mada under the IEEE Tech4Good initiative to develop a hybrid clean water management system for underserved rural communities. The solution integrates rainwater harvesting, PDAM water lines, IoT-based automation, and solar energy to ensure reliable, sustainable water access for a village dominated by elderly and child residents. Contributed to stakeholder coordination, system strategy, and early-stage design discussions, aligning technical implementation with socio-environmental needs. Also involved in revitalizing the IEEE Student Branch at UGM to strengthen community-driven technology initiatives.
- **Projects** (2025): Co-developed an early-stage health tech prototype: a web-integrated Bronchopneumonia early detection device for toddlers, combining respiratory sensors with machine learning classification and real-time data visualization. The product captures breathing patterns, processes them using AI models, and transmits results to a responsive web dashboard for monitoring and early intervention. As the full-stack developer, built the front-end interface and backend architecture to ensure seamless device-to-web data flow, emphasizing usability for caregivers and healthcare workers. The project aims to improve pediatric respiratory screening in under-resourced communities and has passed UGM's internal selection with a score of 675/700.
- **Modules Taken** (2025): Completed an online course covering the foundational principles of front-end web development, including HTML, CSS, and JavaScript. Gained hands-on experience in building responsive user interfaces and understanding the structure and behavior of modern websites.