



# IHSAN HARIMURTI

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Semarang, Jawa Tengah, Indonesia

I'm a Computer Engineering student at Diponegoro University with a strong passion for embedded systems and software development. Dedicated to making a societal impact through organizations, I'm a lifelong learner eager to embrace challenges that foster a growth mindset. Always open to opportunities for continuous learning and self-improvement



## Education Level

**Universitas Diponegoro - Semarang, Jawa Tengah**  
*Undergraduate Computer Engineering, 3.86/4.00*

Aug 2021 - Recent

## Professional Experiences

**PT. Taman Media Indonesia (Crocodic) - Semarang, Indonesia**

Jan 2024 - Mar 2024

*IoT Engineer Intern Staff*

- Developed IoT-based water and power monitoring systems in mining areas across South and East Kalimantan, utilizing RS485 communication and Modbus protocol for reliable sensor data transmission..
- Contributed to the development of a power monitoring system using Autonics hardware and DAQMaster software, with RS485 serial communication and Modbus protocol for data acquisition.
- Built a smart education system by integrating CCTV with computer vision using OpenCV for automated activity recognition.

## Intensive Development Courses Experience

**Bangkit Academy led by Google, Goto, and Traveloka – Indonesia**

Jan 2024 - Aug 2024

*Mobile Development Cohort*

- Developed Android applications using Kotlin, Jetpack Compose, and modern app architecture (MVVM, Clean Architecture).
- Integrated apps with backend services and implemented ML models into Android to enable intelligent features.
- Delivered a team-based capstone project, applying real-world development workflows and collaborative practices.

**IDCamp by Indosat Ooredoo Hutchison – Indonesia**

Nov 2024 - Mar 2025

*Devops Intermediate Level Course*

- Completed a structured DevOps course covering foundational to intermediate topics, including CI/CD pipelines, infrastructure monitoring, and cloud deployment.
- Gained hands-on experience with tools like Jenkins, Grafana, and AWS, simulating real-world DevOps practices.
- Developed a strong understanding of DevOps workflows and their role in enhancing software delivery in modern tech companies.

## Organisational Experience

**URDC - Aterkia Roboboat Team - Semarang, Jawa Tengah**

Dec 2022 - Dec 2024

*Senior Staff*

URDC (Undip Robotic Development Centre) is an organization dedicated to developing robots at the university level. The Aterkia Robobot team, in particular, specializes in the development of autonomous surface vessel.

- Contributed to the URDC - Aterkia Roboboat Team as a senior staff in the Electronics and Programming Division.
- Contributing as a team member in the design of an autonomous parking system concept on the ship for the Marine Icon 2024 Competition ship design competition, reaching the final round.
- Led a multidisciplinary team as Team Leader in KKI 2024 by Puspresnas, successfully developing an Autonomous Surface Vessel (ASV) integrating navigation, computer vision, embedded electronics, and network communication, and advancing to the national final round.

**BEM FT Undip - Semarang, Jawa Tengah**

Feb 2022 - Dec 2022

*Staff*

BEM FT Undip is a student organization that serves as the executive body representing engineering students.

- Designed and executed community service events as a dedicated member of the Student Executive Board, fostering positive social impact through effective planning and implementation.

**BEM Undip - Semarang, Jawa Tengah**

Oct 2021 - Dec 2021

*Intern Staff*

BEM Undip serves as the student government, coordinating and representing the interests of students at the university level.

- Contributed to community engagement by supporting lead staff in organizing impactful events as an intern at the Student Executive Body, fostering meaningful connections with society

## Skills, Achievements & Other Experience

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- **Programming Language:**  
Python, Kotlin, C++, C, SQL, Java, Dart, HTML, CSS, JavaScript, Verilog
- **KKI 2024 - ASV (Autonomous Surface Vessel) Division Finalist (2024)** [🔗](#):  
Drove significant performance improvements through the implementation of advanced navigation, computer vision integration, and a real-time web monitoring system as team leader.
- **Marine Icone 2024 - Ship Design Competition Finalist (2024)** [🔗](#) :  
Contributed to the design of an automated vehicle parking system integrated into a ship design scientific paper project, which advanced to the final round of the Marine Icon competition by ITS
- **Anforcom Diponegoro UI/UX Competition Finalist (2023)** [🔗](#):  
Contributed to the team's success in achieving a Top 5 position as finalists in UI/UX competition
- **BEM FT Undip Community Service Department Staff of the Month (2022)**
- **Modules Taken (2025):** Linux System Administrator Training by Dicoding
- **Modules Taken (2025):** CI/CD Implementation Training by Dicoding
- **Modules Taken (2024):** Android Application Intermediate Course by Dicoding
- **Modules Taken (2024):** ROS2 Self-Driving robot with Python and C++ by Udemy
- **Modules Taken (2024):** Learning the SOLID Programming Principles by Dicoding
- **Modules Taken (2023):** CCNA - Introduction to Networks
- **Modules Taken (2023):** CCNA - Switching, Routing and Wireless Essentials
- **Modules Taken (2023):** Oracle Database Foundation
- **Modules Taken (2023):** Oracle Database Design