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** Aug 2021 - Recent

Undergraduate Computer Engineering, 3.84/4.00

Professional Experiences

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.
- Contributed to the development of a power monitoring system using Autonics hardware and DAQ Master software.
- Developed a smart education system by integrating CCTV with computer vision technology using OpenCV.

Bangkit Academy - **Indonesia** Jan 2024 - Aug 2024

Mobile Development Cohort

- Completed an intensive mobile app development program, gaining hands-on experience in Android development with Kotlin, backend integration, real-world projects, and industry certifications

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 Robobat 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.
- As a team leader in KKI 2024 by Puspresnas, successfully led the team in developing an Autonomous Surface Vessel (ASV) project to 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, playing a central role in coordinating and representing the student body at the university.

- 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

- **Programming Language**: Python, C++, C, Verilog, SQL, Kotlin, Java, Dart, Pascal
- **KKI 2024 - ASV (Autonomous Surface Vessel) Division Finalist** (2024): Drove significant performance improvements through the implementation of advanced navigation, computer vision integration, and a robust real-time monitoring system as team leader.
- **Marine Icone 2024 - Ship Design Competition Finalist** (2024): Contributing as a team member in designing an automated parking system for vehicle on ships, reaching the final round
- **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** (2024): Android Application Intermediate Course by Dicoding
- **Modules Taken** (2024): ROS2 Self-Driving robot with Python and C++ by Udemy
- **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
- **Modules Taken** (2024): Learning the SOLID Programming Principles by Dicoding