Danendra Clevero Ananda

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Turning Code into Motion

I'm a ROS Engineer with a background in Electrical Engineering from ITS and 4+ years of experience building robotic systems. My work centers on developing robust, ROS-based software for real-time robot perception, planning, and control. I code primarily in C++ and Python, and work natively in Linux environments. My goal is simple: create autonomous systems that move intelligently, adapt fast, and safe from bugs.

Work Experience

SENIOR ROS SOFTWARE ENGINEER | WIDYA ROBOTICS | FEB 2025 – CURRENT

- Worked on load scanner R&D and unit maintenance using ROS, C++, and Lidar in Ubuntu.
- Worked for code standarization, and documentations.

OWNER (SELF-EMPLOYEED) | JIVANUSA ROBOTICS | JAN 2025 – CURRENT

- Established core project documentation templates and processes.
- Developed a photobooth application using React and Go.
- Led the design of an autonomous car platform using ROS.

ROS SOFTWARE ENGINEER | WIDYA ROBOTICS | FEB 2024 – FEB 2025

- Worked on load scanner R&D and unit maintenance using ROS, C++, and lidar in ubuntu.
- Worked for code standarization, and documentations.

ROBOT SOFTWARE ENGINEER (PROJECT BASED) | KAKAROBOT | MAR 2024 – CURRENT

- Built an autonomous service robot with full path planning and obstacle avoidance.
- Developed a centralized communication system for multi-agent coordination in robotic soccer systems.

ROBOT SOFTWARE RND | IRIS | MAY 2021 – DEC 2023

- Developed control, perception, and main logic for omni-wheeled robots in C++ and ROS. Led software refactor (30K+ LOC), helped win multiple national/international robotics championships.

ROBOT SOFTWARE RND | PUI-AIHES | MAR 2023 – PRESENT

- Built production-ready UI system for a service robot using React.js and integrated it with ROS via UDP communication.

ROBOT SOFTWARE RND (INTERNSHIP) | PUI-AIHES | SEPT 2023 – DEC 2023

- Built Gazebo-based 3D simulation for wheeled robot soccer integrated with real robot code and ROS.

Education

BACHELOR OF ENGINEERING | FEBRUARY 2024 | INSTITUT TEKNOLOGI SEPULUH NOPEMBER | AUG 2020 – FEB 2024

- Graduated in 3.5 years (7th semester) with GPA: 3.57 (Cum Laude)
- **Thesis**: Potential Field Path Planning on Wheeled Robot Soccer

- Built various robotics projects: line follower (AT89S) with assembly, middle size league robot with ROS, object recognition (C++ & neural nets), and more (see GitHub "Self Project" section)

Achivement

- **2nd Position at Video Challenge Robocup Asia Pacific, Japan, 2021**
- **2nd Position at Kontes Robot Indonesia Regional, 2021**
- **2nd Position at Kontes Robot Indonesia Nasional, 2021**
- **Best Design at Kontes Robot Indonesia Regional, 2021**
- **Grand Champion at Kontes Robot Indonesia, 2021**
- **1st Position at Robocup Asia Pacific Cooperation Challenge, China, 2022**
- **1st Position at Robocup Asia Pacific Ambition Challenge, China, 2022**
- **3st Position at Middle Size Robocup, Thailand, 2022**
- **1st Position at Kontes Robot Indonesia Regional, 2022**
- **1st Position at Kontes Robot Indonesia Nasional, 2022**
- **Best Strategy Kontes Robot Indonesia Nasional, 2022**
- **Grand Champion at Kontes Robot Indonesia, 2022**
- **2nd Position at Kontes Robot Indonesia Regional, 2023**
- **3rd Position at Kontes Robot Indonesia Nasional, 2023**
- **Best Strategy Kontes Robot Indonesia Nasional, 2023**
- **1st Position at FIRA Autonomous Car Challenge, 2023**

Research or Publications

- **GAZEBO SIMULATOR | IRIS | DOI 10.13140/RG.2.2.27949.87523 | GAZEBO SIMULATOR**

- **AUTONOMOUS CAR BIRD EYE VIEW | PUI-AIHES | AUTONOMOUS CAR PAPER**

- **THESIS | IRIS | DOI 10.13140/RG.2.2.29120.96007/1 | THESIS**

- **SOCCER ROBOT SOFTWARE | IRIS**