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Summary_

A computer science graduate from Institut Teknologi Bandung with a year of professional experience in robotics and deep tech industry, focusing on mobile robot development and software engineering. Has more than 2 years of research and hands-on experience in developing mobile robots. Familiar with popular robotics development tools such as Robot Operating System and Gazebo simulator.

Education

Institut Teknologi Bandung

Bandung, Indonesia

BACHELOR OF SCIENCE, INFORMATICS/COMPUTER SCIENCE

Aug 2016 - Oct 2020

- Thesis: "Autonomous Exploration and Active Mapping with Mobile Robots".
- · Was an active member of a robotics developer team which resides in the Autonomous Vehicle Research Group Lab.
- · Had organizational experience in the Computer Science Student Union, once served as the Council Secretary and then as the head of a committee in the Council of Supervisory and Representatives.

Skills_

Programming Python, C++, Golang, Javascript

Tools and Technologies Robot Operating System (ROS), Linux Operating Systems, OpenCV Library, Gazebo Simulator

Languages Indonesian (native), English (B2/C1)

Professional Experience

Movel AI Singapore, Singapore

ROBOTICS SOFTWARE ENGINEER

Sept 2020 - Present

- · Works closely with product manager and other engineers in the design and development of the flagship robotics software product
- Initiated, developed, and maintained a robotics simulation system for a Fleet Management System product with a web engineer
- Designed and implemented a novel camera-based mapping system in collaboration with a senior robotics engineer

Shopee International Indonesia

Jakarta Indonesia

SOFTWARE ENGINEER INTERN

May 2019 - Aug 2019

- · Implemented back end handler component that deals with a high number of requests per second in Golang.
- Created "Feature Release Manager" application which allows independent and individual releases of features for different countries in Golang.
- · Wrote software documentation of "Feature Release Manager" application and other software components that I implemented.

Organizational Experience

Dagozilla Robotics (Autonomous Vehicle Research Group Lab, ITB)

Bandung, Indonesia

SENIOR TECHNICAL ADVISOR

Sept 2019 - Sept 2020

- Gave technical advises and feedback to the software/programming team.
- Did more advanced research in state estimation and implementations of Bayesian filters.

LEAD SOFTWARE ENGINEER Sept 2018 - Sept 2019

- Led the design and development process of the software system for a telepresence robot as well as the documentation of the system.
- Directed the research and development on computer vision, robotic control systems, robot AI, and software UI/UX for MSL-class robots.
- Initiated better engineering and software documentation practices that enable the sharing of knowledge between divisions.

SOFTWARE ENGINEER Sept 2017 - Sept 2018

- Designed and built the computer vision software component for MSL-class competition robots using OpenCV with ROS in C++.
- Created software documentation of the vision system that I built as well as other legacy codes that were going to be migrated.
- · Initiated the research on a pose estimation method by combining odometry and IMU sensor data using Extended Kalman Filter.

Computer Science Student Union, ITB

Bandung, Indonesia

March 2019 - March 2020

HEAD OF ASPIRATION COMMITTEE, COUNCIL OF SUPERVISORY AND REPRESENTATIVES

- · Managed to increase the presence of the committee within the students' community.
- · Increased the number of inputs and feedback gathered by up to 500% by actively taking feedback from students.
- Gathered suggestions and feedback from the students regarding a possible amendment to the Charter of the Union.
- Organized an extraordinary council session addressing the amendment to the Charter.

- Archived incoming letters and notices addressed to the council and wrote responses if necessary.
- Wrote and archived decision letters, documents, and notices of the council.
- Wrote and authorized the council's minutes of meetings.

Member of Representatives, Council of Supervisory and Representatives

Sept 2017 - March 2018

- Approached fellow union members to ask for feedback and suggestions for the union.
- Proposed policies and solutions to the council and the executive body of the union based on suggestions and feedback from peers.