

Dionesus Agung

SOFTWARE ENGINEER · ROBOTICS ENGINEER

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Summary

Software Engineer with a background in robotics and AI, specialized in computer vision and robotics perception including filtering and state estimation. Skilled in Python and C++. An aspiring engineer currently pursuing a Bachelor's degree focused in computer science from Institut Teknologi Bandung.

Education

ITB (Institut Teknologi Bandung)

BACHELOR IN COMPUTER SCIENCE

Bandung, Indonesia

Aug 2016 - (expected) Jul 2020

- Currently doing final assignment about autonomous SLAM navigation for mobile robots.
- GPA 3.XX/4.00.

Skills

Programming Python, C++, Golang, Node.js

Systems and Tools ROS (Robot Operating System), Unix Operating Systems, OpenCV Library

Human Languages Indonesian (native), English (bilingual/native proficiency), German (basic knowledge)

Experience

Shopee Internasional Indonesia

SOFTWARE ENGINEER INTERN

Jakarta, Indonesia

May 2019 - Aug 2019

- Implemented back end handler component that deals with high number of requests per second.
- Created API for voting system used in TV shows.
- Created feature and application release console to enable features and applications to be released in different countries individually and independently.

Dagozilla ITB Robotics

LEAD PROGRAMMER

Bandung, Indonesia

Sept 2018 - Sept 2019

- Generally direct the research on computer vision, robotic system controls, robot AI, and UI/UX software interface.
- Built a mobile telepresence robot that can be controlled remotely via the internet.
- Designed and implemented AI for goalkeeper robot movement and decision making.
- Did research on global robot pose estimation using Monte Carlo Localization method.

PROGRAMMER

Sept 2017 - Sept 2018

- Designed architecture for computer vision system software for football-playing robots that compete in Indonesian MSL.
- Made object (ball, obstacle, and field) detection for MSL robots using OpenCV library.

Awards

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| 2019 | 4th Place , KRSBI Beroda, Kontes Robot Indonesia Nasional (National league of Indonesian Robocup MSL) | Indonesia |
| 2019 | 1st Place , KRSBI Beroda, Kontes Robot Indonesia Regional 2 (Regional league of Indonesian Robocup MSL) | Indonesia |
| 2019 | Best Strategy , KRSBI Beroda, Kontes Robot Indonesia Regional 2 | Indonesia |
| 2018 | Best Strategy , KRSBI Beroda, Kontes Robot Indonesia Regional 2 | Indonesia |

Organizations

Informatics Students Association (HMIF)

BOARD OF SUPERVISORY AND REPRESENTATIVES

Bandung, Indonesia

Sep 2017 - present

- Head of Aspiration Committee (Jan 2019 - present).
- Secretary (Jan 2018 - Jan 2019).
- Staff (Sep 2017 - Jan 2018).