Dionesius **Agung**

SOFTWARE ENGINEER · ROBOTICS ENGINEER

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Summary

An aspiring student currently pursuing a Bachelor's degree in computer science from ITB with interests in robotics and AI, has research background in computer vision, robotics perception, and state estimation. Currently looking for opportunity in DeepMind UK as robotics intern.

Education

ITB (Institut Teknologi Bandung)   *Bandung, Indonesia*

BACHELOR IN COMPUTER SCIENCE (GPA 3.xx/4.00)   *Aug 2016 - Jul 2020 (expected)*

- Currently doing final assignment about autonomous SLAM navigation for mobile robots.

Skills

Programming	Python, C++, Golang, Javascript, Node.js, express
Systems and Tools	ROS (Robot Operating System), Unix Operating Systems, OpenCV Library
Human Languages	Indonesian (native), English (bilingual/native proficiency)

Experiences

Shopee Internasional Indonesia   *Jakarta, Indonesia*

SOFTWARE ENGINEER INTERN   *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 release manager to enable independent and individual releases of features for different countries.

Dagozilla ITB Robotics   *Bandung, Indonesia*

LEAD PROGRAMMER   *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

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 ITB)   *Bandung, Indonesia*

HEAD OF ASPIRATION COMMITTEE, BOARD OF SUPERVISORY AND REPRESENTATIVES   *Jan 2019 - present*

- Compile aspirations of HMIF members.

SECRETARY, BOARD OF SUPERVISORY AND REPRESENTATIVES   *Jan 2018 - Jan 2019*

- Wrote and published letters issued by HMIF Board of Supervisory and Representatives.
- Archived letters and documents of HMIF Board of Supervisory and Representatives.

STAFF, BOARD OF SUPERVISORY AND REPRESENTATIVES   *Sep 2017 - present*

- Supervised the performance of HMIF board of executives.
- Became a representative for HMIF members.