Dionesius **Agung**

Software Engineer · Robotics Engineer

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Summary

A student currently pursuing a Bachelor's degree in computer science from ITB with interests in robotics and AI, mainly focused in computer vision, perception, and state estimation. An aspiring engineer currently looking for internship 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.
- 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.

Projects

Mobile Telepresence Robot *Robotics*

A mobile telepresence robot that can be controlled remotely via the internet used for teleconference *2018*

- Programmed the robot control and inverse kinematics.
- Programmed the hardware interface and microcontroller.
- Created video chat software for robot-mounted and user-facing using WebRTC.

Peer-to-Peer Collaborative Editor *Distributed System*

A simpler and plainer version of Google Docs *2019*

- Created peer-to-peer collaborative text editor (simpler replica of Google Docs) utilizing CRDT.
- Built the graphical user interface with Qt.

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*