

Jaeseok Park

<http://github.com/jaeseok4104>

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SUMMARY

My main interest lies at SLAM(visual, sensor fusion,), visual localization and robotics mathmetics.

My favourite applications are autonomous driving and logistics.

I am a self motivated person.

EMPLOYMENT

- **Motion2AI** Seoul, South Korea
Robotics Researcher (Full-time) 2021.02.08 - Present
 - Development server side graph optimization application using Ceres.
 - Development lidar mapping backpack.
 - FAST feature extractor and FAST feature tracker using CUDA
 - Development firmware and device management application
- **Helper Robotics** Seoul, South Korea
Intern (Full-time) 2020.12.01 - 2021.02.05
 - Development multi robot path planning using Dijkstra algorithm.

PROJECTS

- **Drowsiness Recognition Smart Stand**
AI Makerthon 3rd Place
 - Drowsiness Recognition
 - Key achievements:**
 1. Face Detection Based on haar cascade classifier
 2. Eye Detection Based on DNN Model
 3. Drowsiness Detection Based on eye edge detected result
 - LED brightness control using photo resistor
- **Mobile Robot Control**
Mobile Robot Control using joy stick
 - BLDC Motor Control using MODBUS protocol based motor driver
 - Development joy stick controller
 - Development External PID Controller for unstable driving of mobile robot
 - Mobile Robot Control Algorithm
- **Wheel Detection for parking robot**
Key Technology Development Project for Robot Industry in Korea

SKILLS

- **Programming** - C/C++, Firmware side C, CUDA, Python, php
- **Libraries** - ROS, GTSAM, Ceres, Qt, HAL(Firmware)
- **Some skills** - SLAM(Visual-Inertial, Lidar-Inertial), Visual Localization, Firmware, Robotics mathmetics

EDUCATION

- **Tech University Of Korea(TUK)** Siheung, South Korea
Electrical Engineering [B.A] 3.04/4.5 2016.03.01 - Present
 - 2020 Second Semester Grade Scholarship D-1

RESEARCH EXPERIENCES

- **Intelligence Healthcare LAB(IH LAB), Tech University Of Korea(TUK)** Siheung, South Korea
Undergraduate research student (Advisor: Eung-Hyuk Lee) 2019.01 - 2020.10