

Youngeon Kim

ROBOTICS RESEARCHER · FIELD ROBOTICS ENGINEER

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“seize the day.”

Summary

This is YoungEon Kim, a robotics researcher and engineer. My research interests lie in advancing multi-robot systems and autonomous navigation. I am particularly focused on developing collaborative path planning systems and optimizing mobile navigation to enhance the efficiency and adaptability of robots in dynamic environments.

Education

Keymyung University

B.S. IN ROBOTICS ENGINEERING

- GPA : 4.2 / 4.5 major GPA : 4.4 / 4.5

Daegu, S.Korea

Mar. 2017 - Feb. 2023

Internships

Robot Dynamics and Intelligent Control Lab

UNDERGRADUATE RESEARCHER

- Designed and implemented Multi-DOF Control Systems
- Managed motor dynamics with MFC

Daegu, S.Korea

Mar. 2021 - Jan. 2022

Work Experience

Korea Electronics Technology Institute, KETI

RESEARCHER

- Multi Robot System
- Robot Elevator System
- mobile robot navigation system
- Docking Process develop
- Deployed a centralized logging environment which gather log data from docker containers

Seoul, S.Korea

May. 2023 - Current

Korea Institute of Robotics, KIRO

INTERN

- Education of Robotics
- Manipulator

Gumi, S.Korea

July. 2022, Mar. 2023

Projects

Development of Cooperate Mapping, Environment Recognition and Autonomous Driving Technology for Multi Mobile Robots Operating in Large-scale Indoor Workspace

PARTICIPANT

- Development Multi Robot System Environment Mobile Robot Navigation With Open-RMF

KETI

May. 2023 - Current

Collaboration Intelligence-Based Robot Plus Competitiveness Support Project

PARTICIPANT

- Developed a robot system for manufacturing logistics automation processes.
- Established inter-cell logistics lines using a pick-and-drop sequence.
- Integrated AGVs with manufacturing logistics processes through upper-level control using TCP/IP communication protocols.

KETI

May. 2023 - Current

Development and Validation of BM and Robots for Software Defined Robot Domain Services

PARTICIPANT

- Currently in Progress.

KETI

Jan. 2025 - Current

Domestic Conference

Cooperative Autonomous Driving System for Multi-Mobile Robots Using Open-RMF

YOUNGEON KIM, KEUNHWAN KIM, DONG YEOP KIM

- Korea Robotics Society (KROS) 455-456

KROS

Feb. 2024

Method for Cross-Utilization of Obstacle Recognition Information in a Multi-Robot System for Collaborative Path Planning

YOUNGEON KIM, KEUNHWAN KIM, DONG YEOP KIM

- Institute of Control, Robotics and Systems, Korea(ICROS) 455-456

ICROS

July. 2024

Traversability Assessment and Path Planning Using Obstacle Recognition Information for Multi-Robot System

YOUNGEON KIM, DONG YEOP KIM KEUNHWAN KIM

- International Conference on Control, Automation and Systems(ICCAS) (not Domestic) 1670 - 1671

ICCAS

Oct. 2024

Skills

DevOps	Docker, Git, ROS2/ROS
Programming	Node.js, Python, C++/C, Matlab
Languages	Korean, English

Extracurricular Activity

Robotics Blog

WRITER

- Sharing my studies and notes on robotics through this blog.
- Here is the link to my blog.

[Github Blog](#)

Dec. 2022 - Current

Transforming Hybrid Operational Robot

PARTICIPANT

- Design of a four-legged robot with a vertically adjustable body frame and wheels on each leg.
- Tested and assembled the design using CATIA and produced the final model through 3D printing.
- Developed sensor and actuator control systems and driving algorithms using ROS packages.

KMU

Dec. 2021 - Jun. 2022