

Jiwon Park

 ziwon-park.com

 youtube.com/@zzziito

 ziwon@kaist.ac.kr

 github.com/zzziito

 Yongin-si, Republic of Korea

 zzziito.tistory.com/

SUMMARY

Master's student focused on quadruped robot autonomous navigation through generative modeling approaches. Skilled in robot software development and implementation of navigation algorithms for robotic systems.

RESEARCH INTERESTS

- Autonomous Navigation
- Off-road Mobile Robot
- Generative Model
- Neural Mapping

EDUCATION

Mar. 2025 - Current	KAIST M.S course in Robotics Program	Daejeon, Korea
Mar. 2019 - Aug. 2024	Kyung Hee University B.S course in Department of Electronic Engineering, Software Convergence (Robot Vision Track)	Yongin-si, Korea

PUBLICATIONS

INTERNATIONAL CONFERENCES

May. 2026	DreamFlow : Local Navigation Beyond Observation via Conditional Flow Matching in the Latent Space IEEE International Conference on Robotics & Automation (ICRA), 2026 Jiwon Park* , Dongkyu Lee*, I Made Aswin Nahrendra, Jaeyoung Lim and Hyung Myung
Dec. 2023	BumpyPatch: Heightmap-based Outdoor Point Cloud Segmentation to Find Less Bumpy Road IEEE International Conference on Robotic Computing (IRC), 2023 Jiwon Park and Hyoseok Hwang
Dec. 2022	Outdoor Visual SLAM and Path Planning for Mobile-Robot IEEE International Conference on Robotic Computing (IRC), CHARMS workshop, 2022 Seongil Heo, Jueun Mun, Jiwoong Choi, Jiwon Park , Eric T. Matson

DOMESTIC JOURNAL

Aug. 2024	Transformer based Collision Detection Approach by Torque Estimation using Joint Information Journal of Korea Robotics Society Vol.19 No.3 Jiwon Park , Daegyu Lim, Sumin Park, Hyeonjun Park
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EXPERIENCE

Mar. 2024 - Sep. 2024	NAVER LABS Internship	Seongnam-si, Korea
<ul style="list-style-type: none">• Developed software of inference board for robot, enhancing on-board processing capabilities• Implemented deep learning model optimization techniques for low-cost NPUs• Integrated third-party robots into multi-robot intelligence system (ARC)• Developed monitoring applications for robot experiments <p>ROS1 / ROS2 / RKNN / gRPC / MQTT / CMake / Flutter</p>		

Dec. 2023 - **ROBROS** Seoul, Korea
Feb. 2024 Internship

- Developed experimental environments for robotic arms using MuJoCo simulation platform
- Proposed a transformer-based model for detecting collisions in robotic arms without external sensors, relying on joint position and torque controllers

ROS 1 / MuJoCo / PyTorch

Apr. 2022 - **Purdue University** West Lafayette, IN, USA
Aug. 2022 Student Intern

- Conducted research on outdoor mobile visual SLAM (Simultaneous Localization and Mapping)
- Focused on enhancing accuracy and reliability of visual navigation for mobile robots

AWARD & HONORS

- Mar. 2025 **2nd place in Quadruped Robot Challenges (QRC), ICRA**
 - IEEE Robotics and Automation Society
- Mar. 2023 - **Full-ride scholarship until graduation**
 - KC Future Foundation
- Apr. 2022-
Aug. 2022 **Purdue-Korea Software Square Program**
 - Ministry of Science and ICT
- Dec. 2022 **SW Festival, Grand Prize**
 - Kyung Hee University, Software College
- Nov. 2021 **The World Embedded Software Contest, Participation Award**
 - Korea Embedded Software and System Industry Association
- Dec. 2020 **Open SW Utilization Contest, Excellence Prize**
 - Kyung Hee University, Software College
- Jul. 2020 **Autonomous Mini-drone Aviation Competition, Excellence Prize**
 - Korean Institute of Electrical Engineers

LANGUAGES

- English** Proficient (TOEIC : 945)
- Korean** Native