

# Jiwon Park



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[github.com/zzziito](https://github.com/zzziito)



Yongin-si, Republic of Korea



[zzziito.tistory.com/](https://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	<b>KAIST</b> M.S course in Robotics Program	<b>Daejeon, Korea</b>
Mar. 2019 - Aug. 2024	<b>Kyung Hee University</b> B.S course in Department of Electronic Engineering, Software Convergence (Robot Vision Track)	<b>Yongin-si, Korea</b>

## PUBLICATIONS

### INTERNATIONAL CONFERENCES

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

### DOMESTIC JOURNAL

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

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

Dec. 2023 - Feb. 2024	<b>ROBROS</b> Internship	<b>Seoul, Korea</b>
	<ul style="list-style-type: none"><li>• Developed experimental environments for robotic arms using MuJoCo simulation platform</li><li>• Proposed a transformer-based model for detecting collisions in robotic arms without external sensors, relying on joint position and torque controllers</li></ul> <p>ROS 1 / MuJoCo / PyTorch</p>	
Apr. 2022 - Aug. 2022	<b>Purdue University</b> Student Intern	<b>West Lafayette, IN, USA</b>
	<ul style="list-style-type: none"><li>• Conducted research on outdoor mobile visual SLAM (Simultaneous Localization and Mapping)</li><li>• Focused on enhancing accuracy and reliability of visual navigation for mobile robots</li></ul>	

AWARD & HONORS

Mar. 2025	<b>2nd place in Quadruped Robot Challenges (QRC), ICRA</b> <ul style="list-style-type: none"><li>• IEEE Robotics and Automation Society</li></ul>
Mar. 2023 - Aug. 2024	<b>Full-ride scholarship until graduation</b> <ul style="list-style-type: none"><li>• KC Future Foundation</li></ul>
Apr.2022-Aug.2022	<b>Purdue-Korea Software Square Program</b> <ul style="list-style-type: none"><li>• Ministry of Science and ICT</li></ul>
Dec.2022	<b>SW Festival, Grand Prize</b> <ul style="list-style-type: none"><li>• Kyung Hee University, Software College</li></ul>
Nov.2021	<b>The World Embedded Software Contest, Participation Award</b> <ul style="list-style-type: none"><li>• Korea Embedded Software and System Industry Association</li></ul>
Dec.2020	<b>Open SW Utilization Contest, Excellence Prize</b> <ul style="list-style-type: none"><li>• Kyung Hee University, Software College</li></ul>
Jul.2020	<b>Autonomous Mini-drone Aviation Competition, Excellence Prize</b> <ul style="list-style-type: none"><li>• Korean Institute of Electrical Engineers</li></ul>

LANGUAGES

<b>English</b>	Proficient (TOEIC : 945)
<b>Korean</b>	Native