

Jo Hyenogseob

BIO

I am currently a master's student in the Department of Computer Science and Engineering at Dongguk University. I am a member of the Smart Vision & Media (SVM) Lab, focusing on computer vision and deep learning. My research focuses on defect classification and anomaly detection for industrial applications, aiming to solve real-world problems in automated manufacturing environments.

FIELD OF INTEREST

Computer vision, Representation learning, Defect classification, Anomaly detection

EDUCATION

Dongguk University (DGU) M.S. in Computer Science and Engineering (CSE)	<i>Expected Feb. 2026</i>
Dongguk University (DGU) B.S.E. in Mechanical Engineering (ME)	<i>Feb. 2024</i>
Gyeongkuk National University (GKNU) B.A. in Ethics Eduaction, Double Major English Education	<i>Feb. 2020</i>

RESEARCH EXPERIENCE

Multi-Illumination Display Inspection <i>Graduate Student Research Assistant</i>	2024 - 2025 <i>SVM Lab, DGU</i>
<ul style="list-style-type: none">Developed a defect classification algorithm for display panels using multi-illumination image inputs.Conducted in collaboration with LG Display as part of an industry-academia joint research project.Achieved 98.5% classification accuracy on defect test images and deployed the algorithm within LG Display's production inspection system.	

POSITIONS

Graduate Student Research Assistant (RA) Smart Vision & Media (SVM) Computer Science and Engineering (CSE), Dongguk University (DGU)	<i>Mar. 2024 - Present</i>
Graduate Student Teaching Assistant (TA) Introduction to Industry-Academia Project Computer Science and Engineering (CSE), Dongguk University (DGU)	<i>Spring 2025</i>
Graduate Student Teaching Assistant (TA) Creative Engineering Design	<i>Spring 2024</i>

Computer Science and Engineering (CSE), Dongguk University (DGU)

Contract Teacher

Social Studies (Grade 10), Ethics (Grade 11)

Youngju Girls' High School

Mar. 2020 - Dec. 2020

PROJECT

Autonomous Robot Navigation

Course Project (MEC4092-01)

Spring 2023

Dongguk University

- Implemented autonomous navigation behaviors using ROS2 and the TurtleBot3 platform.
- Developed and tested real-time control and sensor fusion nodes using Python.
- Evaluated navigation performance in a physical testbed environment with obstacle avoidance tasks.

PUBLICATIONS

International Conferences

1. Hyeongseob Jo, Seunggi Park, and Sung In Cho. A survey of unsupervised learning-based out-of-distribution detection. In *Proceedings of the IEEE International Conference on Consumer Electronics-Asia (ICCE-Asia)*, pages 1–4. IEEE, 2024
2. Yoonseo Park, Hyeongseob Jo, and Sung In Cho. A survey of training-free diffusion-based image generation with free-form mask. In *Proceedings of the 2025 International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC)*, 2025. To appear
3. Anonymous. Title withheld for double-blind review, 2025. Submitted to *British Machine Vision Conference (BMVC)*

International Journals

1. Anonymous. Title withheld for double-blind review, 2025. Submitted to *IEEE Transactions on Knowledge and Data Engineering (TKDE)*
2. Anonymous. Title withheld for double-blind review, 2025. Submitted to *Neural Computing and Applications (NCAA)*

LANGUAGES & SKILLS

- Korean (native), English (conversational)
- MATLAB, Python, C
- L^AT_EX, Microsoft Office, Ubuntu, Windows

Revised June 7, 2025