





GYEONGMIN LEE


Computer Vision Engineer


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SUMMARY

Passionate about creating efficient code, I am committed to growing my skills across various coding challenges and domains. I constantly seek the lesson in each project, line of code, and problem I encounter to deepen my expertise and drive my professional growth.

RESEARCH INTEREST

Smart Manufacturing
Computer Vision
Anomaly Detection
Object Detection

EDUCATION

Sep 2024 - present	Hansung University, Seoul M.S. in Computer Science and Engineering	School
	<ul style="list-style-type: none">Integrated B.S and M.S Program in Computer Science and Engineering.Balancing academic studies and professional responsibilities	
Mar 2021 - Feb 2025	Hansung University, Seoul B.S. in Computer Science and Engineering	School
	<ul style="list-style-type: none">Launched the department' s first algorithm competition and served as lead organizer and problem setter for four editions.Served as Vice President of an academic club and co-organized an algorithm competition in collaboration with the department.Provided three terms of peer tutoring in computer engineering.	

EXPERIENCE

Feb 2024 - present	Deepseers, Seoul Vision & Software Engineer (Founding Member)	Company
	<ul style="list-style-type: none">Co-founded a startup delivering semiconductor post-processing vision inspection solutions, now deployed and in mass production across multiple client sites.Developed 36 bottom-side inspection algorithms for QFN, BGA, LGA, and SIP packages, including Ball, Lead, and Pad measurements.Designed side-view inspection algorithms for four-sided package evaluation.Built ROI recommendation features by integrating object detection into teaching workflows and completed related patent filing.Researched and implemented camera calibration techniques and sub-pixel measurement algorithms for package dimensions and positional offsets.Integrated Camera Link and GigE cameras using Halcon and vendor SDKs, and developed lighting-control modules via serial communication.Developed WPF-based teaching tools and result-visualization interfaces, improving usability and workflow efficiency.Supported hardware troubleshooting, on-site vision setup, and training for overseas customers.	
May 2023 - Feb 2024	AML Lab, Hansung University, Seoul Undergraduate Researcher	Laboratory
	<ul style="list-style-type: none">Presented 3 conference posters (ISMP 2023, HCI 2024, KCC 2024) and 1 oral presentation (ISMP-IRSP 2024).Developed vision inspection software for semiconductor packaging equipment (2023–2024).Conducted research on anomaly detection in semiconductor packaging processes (2023–2024).	

PATENTS

Nov 2025 머신비전을 위한 딥러닝 기반 관심영역 자동생성 시스템 및 방법
특허 제 10-2821336 호

PUBLICATIONS AND PRESENTATIONS

- Domestic Conference

- Nov 2023 **[1] Gyeongmin Lee, Wonyong Choi, Keejun Han*, “BGA Anomaly Detection by exploiting Variational AutoEncoders”**
21st International Symposium on Microelectronics and Packaging (ISMP 2023) - *poster presentation (accepted)*
- Jan 2024 **[2] Gyeongmin Lee, Wonyong Choi, Keejun Han*, “Variational AutoEncoder를 활용한 BGA 결함 탐지”**
HCI KOREA 2024
- *poster presentation (accepted)*
- Jun 2024 **[3] Gyeongmin Lee, Daeyoung Roh, Mujin Kim, Keejun Han*, “실시간 마킹/표면 검사 시스템 개발을 위한 다중 비전 검사 기술의 최적화”**
Korean Institute of Information Scientists and Engineers (KCC 2024)
- *poster presentation (accepted)*
- Nov 2024 **[4] Gyeongmin Lee, Seungtaek Lim, Keejun Han*, “Automatic ROI Recommender for Saw Singulation: Seamless Adaptation for Various Semiconductor Devices”**
22nd International Symposium on Microelectronics and Packaging (ISMP-IRSP 2024)
- *Oral presentation (accepted)*

RESEARCH PROJECTS

Jun 2023 - Dec 2023 **AML Lab. Hansung University, Seoul**
Researcher

Project title: “Development of AI based smart manufacturing process and equipment technology to strengthen the competitiveness of semiconductor materials parts and equipment”
(반도체 소자 생산을 위한 인공지능 기반 스마트 제조 공정 장비 및 관련 기술 개발)

AWARDS

Apr 2022 **Hansung University, Seoul**
제19회 한성공학경진대회 동상

Developed “SumNote”, a personalized learning assistant mobile app that uses OCR to summarize notes and generate quizzes. It allows the user to solve quiz questions based on the OCRed text to test their knowledge themselves.

ADDITIONAL REMARKS

I hereby certify that the above detailed statements are all true and correct.