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

- Integrated B.S and M.S Program in Computer Science and Engineering.
- Balancing academic studies and professional responsibilities
- 1 Oral Presentation and 2 Patent Applications

Mar 2021 - Feb 2025

Hansung University, Seoul
B.S. in Computer Science and Engineering

School

Honors: GPA: 3.49/4.5 (Major 3.71)
- Vice President, BUG Academic Club
- Director of Public Relations, College of Engineering Student Council
- Problem Setter, Hansung University Algorithm Competitions (4 participations)
- Tutor, Computer Engineering Department Major Tutoring Program (3 sessions)

EXPERIENCE

Feb 2024 - present

Deepseers, Seoul
Vision & Software Engineer

Company

- Transitioned to a startup founded within the lab, continuing the same projects and responsibilities.
- Developed advanced vision algorithms for semiconductor package inspection using Halcon.
- Developed user interfaces for teaching processes and visualizing inspection results using C# and WPF.

May 2023 - Feb 2024

AML Lab. Hansung University, Seoul
Undergraduate Researcher

Laboratory

- Advisor: Professor Keejun Han
- Researching anomaly detection in semiconductors using variational autoencoders (VAE).
- Researching an object detection-based recommendation system for semiconductor ROI.

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.