



Seungtaek Lim

COMPUTER ENGINEER

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“Step By Step, Day By Day”

Education

Hansung University

Seoul, Korea

B.S. in Computer Engineering (Track: Digital Contents & Virtual Reality, Big Data)

Mar. 2020 – Feb. 2026 (Expected)

- Total GPA of 3.98 / 4.5, Major GPA of 4.03 / 4.5
- Expected graduation in February 2026.

Experience

AML Lab, Hansung University

Seoul, Korea

Undergraduate Researcher

May 2024 – July 2025

- Conducted research on semiconductor package defect detection using Transformer-based command classification models
- Proposed and evaluated an automatic region of interest (ROI) extraction method for real-time defect inspection
- Contributed to academic publications and related research projects

DeepSeers (Spin-off from Hansung AML Lab)

Seoul, Korea

Computer Vision Software Engineer

May. 2024 – Dec. 2024

- Built machine vision software for semiconductor defect inspection, applied in industrial settings
- Designed ML-based vision algorithms for defect detection in packaging processes
- Contributed to the product development and technical advancement of a startup founded from the AML Lab

Research Projects

Development of AI based smart manufacturing process and equipment technology to strengthen the competitiveness of semiconductor materials parts and equipment

May. 2024 – Jul. 2025

South Korean Ministry of Trade, Industry and Energy

(Project No. 20022899)

Projects

Conversational Interface for Semiconductor Defect Detection using LLMs

Mar. 2025 – Jul. 2025

AML Lab, Hansung University

Poster / Video Demo

- Designed a dialogue-based interface for semiconductor defect inspection using large language models
- Conducted experiments and developed the full system, including model design and API server implementation

Sporty-up : Mobile Vision-Based Sports Posture Analysis System

Dec. 2024 – Jun. 2025

Qualcomm

News Article / GitHub Repository

- Designed a hybrid system architecture using on-device and server-side models
- Researched and optimized object detection models for mobile devices
- Developed posture evaluation algorithms and server APIs

Automatic ROI Extraction System for Real-Time Semiconductor Defect Detection

Oct. 2024 – May. 2025

AML Lab, Hansung University

Poster

- Contributed to a system that augments rule-based inspection with few-shot deep learning
- Participated in model design to extract fine-grained ROIs from semiconductor images
- Collaborated on research targeting real-time defect localization and automation

Gvision: Semiconductor Vision Inspection System

Jun. 2024 – Dec. 2024

DeepSeers

Company Page

- Developed vision inspection algorithms for multi-pad structures in semiconductor packages
- Designed and implemented inspection logic for edge defects such as chipping and burrs
- Contributed to the development of a machine vision pipeline for defect detection in packaging processes

Others

- Analysis of Optimal Street Trash Bin Placement Using Public Data
 - Organizational Education Simulation Game for Elementary School Students
 - VR Wheelchair Experience Simulation Game
 - Watchu: OTT Management System
 - UNO Game with Socket Communication
 - Personal Health Logging and Fitness Explanation App
- (Python)
(Unity, C#)
(Unity, C#)
(SQL, HTML)
(Java)
(Android Studio, Java)

Research

Publications

Design of a Physical AI System for Semiconductor Package Defect Detection Using a Transformer-Based Command Classification Model

Jun. 2025

Jiwoo Jang*, Seungtaek Lim**, Keejun Han***

See the paper

Korea Digital Contents Society Summer Conference Proceedings 2025, pp. 503-504

Design of a Real-Time Posture Analysis and Feedback Mobile System for Indoor Sports

May. 2025

Seungtaek Lim*, Juwan Son**, Woojin Jang**, Junhyeon Hwang**, Keejun Han***

See the paper

Proceedings of KIIT Conference Summer 2025, pp. 1265-1268

Automatic Detailed Region of Interest Model for Real-Time Semiconductor Package Defect Detection

Mar. 2025

Seungtaek Lim*, Youngjin Park**, Wonyong Choi**, Keejun Han***

See the paper

Journal of Microelectronics and Packaging, vol.32, no.1, pp.100-113

Presentations

Sports Posture Assessment and Feedback

May 2025

Seungtaek Lim*, Juwan Son*, Woojin Jang*, Junhyeon Hwang*

(Online Presentation)

Qualcomm University Relations - University Platforms Symposium 2025

Deep Learning-Based Automated Extraction of Component Regions for Semiconductor Package Defect Detection

Apr. 2025

Seungtaek Lim*, Youngjin Park**, Wonyong Choi**, Keejun Han***

(Poster Presentation)

Korean Microelectronics and Packaging Society (KMEPS) Annual Conference

Automatic ROI Recommender for Saw Singulation: Seamless Adaptation for Various Semiconductor Devices

Nov. 2024

Gyeongmin Lee*, Seungtaek Lim**, Keejun Han***

(Oral Presentation)

22nd International Symposium on Microelectronics and Packaging (ISMP-IRSP 2024)

Awards & Honors

Awards

- 2025 **Best Paper Award**, Journal of the Microelectronics and Packaging Society, vol.32 no.1, 2025

2025 **Best Paper Award (Gold Prize)**, Korea Information Technology Society Summer Conference 2025
- KMEPS
KIIT

Honors

- 2025 **Outstanding Capstone Team**, Represented Hansung Univ. at Qualcomm Symposium 2025

2024 **Dean's List**, Hansung University -Awarded for academic excellence (top 10%)
- Hansung University
Hansung University

Extracurricular Activity

Student Group Activities

Digital Innovators (Official Student Group, Hansung University)

Oct. 2024 – Jan. 2025

- Group Leader
- Led an official university student group focused on AI and computer science research
 - Organized bi-weekly paper reading sessions, selecting and presenting recent research papers

Part-Time Experience

SpoAny Fitness Center

Aug. 2023 – Mar. 2024 (8 months)

Front Desk Staff

Yeongdeungpo Community Child Center

Jan. 2023 – Feb. 2023 (2 months)

Administrative Assistant

Skills and Techniques

Programming Languages	Python, Java, C#, C++, JavaScript, SQL, HTML, CSS
Frameworks & Libraries	Halcon, WPF, Spring Boot, Android SDK, TensorFlow, PyTorch, scikit-learn
Tools & Platforms	Git, AWS (EC2, S3), LaTeX, Overleaf
AI / Data Analysis	Object Detection, Pose Estimation, NLP (Transformer models), Pandas, Matplotlib
Mobile & Game Dev	Android Studio, Unity, OpenCV

Technical Blog & GitHub

Blog: c0mputermaster.tistory.com / **GitHub:** github.com/SeungtaekLim
Sharing insights on machine learning, computer vision, academic paper reviews, and troubleshooting.