

# Yoonhyeong Lee

Updated : 25.10.11

## INFORMATION



**Mobile:** (+82) 10-8972-0180

**Email:** lyh010119@gmail.com

## EDUCATION

Hanyang University, Department of Convergence Electronic Engineering

Seoul, South Korea | Mar 2020 – Feb 2026

Undergraduate student (4.27/4.5 for 7 semesters)

Daegu Science High School for the gifted

Daegu, South Korea | Feb 2017 – Jan 2020

## EXPERIENCE

KAIST, CASys (Prof. Jong-Se, Park). Research on accelerating AR generation Daejeon, South Korea | Jan 2025 – Dec 2025

Focusing on Sparse Attention with a paper submission planned for an International Conference

Selected as one of Korean representatives for Huawei's

Dongguan and Shenzhen, China | Sep 2025 – Sep 2025

Seeds for the Future 2025 exchange program

Developed a real-time anomaly behavior detection system on Jetson Nano

Seoul, South Korea | May 2025 – Jun 2025

by Optimizing YOLOv-Pose and LSTM models using TensorRT and ONNX

Implemented a Systolic Array on DE1-SoC FPGA using Verilog

Seoul, South Korea | Apr 2025 – Jun 2025

and controlled it via HPS through custom software

Seoul National University, Human Interface Lab (Prof. Nam-Soo, Kim)

Seoul, South Korea | Jul 2024 – Aug 2024

undergraduate student intern in Summer semester, 2024

Hanyang University, Industry 4.0 FabLab (Prof. Min-Gon, Kwak)

Seoul, South Korea | May 2021 – Sep 2021

Assistant in a Deep Learning Project and AI seminars

Designing MIPS Pipeline and Multi cycle Processor

Seoul, South Korea | Mar 2024 – Jun 2024

using Verilog HDL

Semantic segmentation of micro-catheter based on DSC Loss	Daegu, South Korea   Apr 2018 – Dec 2018
U-Net for myocardial infarction treatement	
Research on optimization algorithm of Linear regression	Daegu, South Korea   Jan 2018 – Apr 2018
using Binary Searching Technique	
Samsung Electronics DS Program 3 <sup>rd</sup> Certi. (Samsung Shining Star, 2024)	Hwasung, South Korea   Jan 2024 – Jan 2024

## RECOGNITION

Hanyang Academic Excellence Award, 2 <sup>nd</sup> Semester, 2024	Seoul, South Korea   Jan 2025
The Presidential Science Scholaship (KOSAF Presidential Science Scholarship)	Seoul, South Korea   Jul 2024 – Present
Hyundai Motors CMK (Chung Mong Koo) Foundation Scholarship	Seoul, South Korea   Jul 2024
Hanyang Academic Excellence Award, 1 <sup>st</sup> Semester, 2020	Seoul, South Korea   Jul 2020
Electronic Engineering Freshman Scholarship (2 years full scholarship)	Seoul, South Korea   Mar 2020 – Dec 2023
Korea Institute of Science and Technology (KIST) Scholarship	Daegu, South Korea   May 2018
Science Gifted School Excellent R&E Joint Presentation Contest,	Incheon, South Korea   Feb 2019
Information Science Category, GIST President’s Award	

## RELEVANT COURSEWORK

Circuits	
• Circuit Theory	A+
• Semi-Conductor Devices	A+
• VLSI	A+
• Micro electronic Circuits	A0
Computer	
• Intro to AI Platform Design and Lab	A+
• Digital Logic Design	A0
• Data Structures	A0
• Computer Architecture	A0
Machine Learning	
• Linear Alegebra	A+
• Probability & Statistics In Engineering	A+
• Signals and Systems	A0

- Digital Signal Processing

A0

## **SKILLS AND LANGUAGE**

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**Programming Languages:** C, Python, Linux, MIPS Assembly, Verilog HDL, NGspice

**Machine Learning Frameworks:** Pytorch, Tensorflow

**Others:** LTspice, Matlab, Magic, SQL

**Language Proficiency:** TOEIC(835), New TEPS(350)