

# Yoonhyeong Lee

Updated : 25.10.11

## INFORMATION



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## 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 Shenzen, 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	

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

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## RECOGNITION

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

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## 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)