

Software Convergence Major | M.S Student @ Kyung Hee University, South Korea

**Areas of Interest:** Vision understanding, Computer Vision/Graphics, Multi-Modal AI

## EDUCATION

### M.S. Software Convergence Major, Kyung Hee University

Advisor: MyeongAh Cho

**Yong-In, Korea**

Aug 2025 — Present

### B.S. AI Computer Science Engineering Major, Handong Global University

GPA: 4.17/4.5 (Overall), 4.26/4.5 (Major)

Graduated with *Summa Cum Laude*

Advisor: Injung Kim

**Pohang, Korea**

Feb 2019 — Aug 2025

### McLean High School

Diploma with High Honors

**McLean, VA, USA**

Aug 2015 — Aug 2018

## RESEARCH

### Undergraduate Research Engineer

- DLLab(Deep Learning Lab) @ Handong Global University
- Enhancing dash cam video image quality for license plate identification
- Dash cam video recognition and de-identification for privacy protection
- Advised by Professor In-Jung Kim

**Pohang, Korea**

Aug 2023 — Jan 2025

## PUBLICATIONS

### International Journal

1. Kihyun Na, Junseok Oh, **Youngkwan Cho**, Bumjin Kim, Sungmin Cho, Jinyoung Choi, and InJung Kim  
“MF-LPR2 : Multi-frame license plate image restoration and recognition using optical flow”  
(*Computer Vision and Image Understanding*, 2025)

## AWARDS & HONORS

- **National Science & Technology Scholarship** **Aug 2023 — Jan 2025**
  - Scholarship to support undergraduates with strong academic performance in science and engineering, with the purpose of developing future leaders in those fields
- **Academic Excellence Scholarship** **Aug 2022 — Aug 2024**
  - Merit-based Scholarship
- **SW-Mileage Scholarship** **Jan 2022 — Jul 2024**
- **Academic Excellence Scholarship** **Jan 2019**
  - Admission with highest distinction

## PROJECTS

### Multi-Image Super-Resolution & Restoration

Aug 2023 – Jan 2025

- Deep Learning LAB @ Handong Global University
- Deep Learning based Multi Frame Image Restoration using Optical Flow
- Advised by Professor In-Jung Kim

Aug 2023 – Dec 2023

### Semantic Segmentation and Object Recognition

- Deep Learning LAB @ Handong Global University
- Human face & License plate recognition and De-identification within dash cam video
- Advised by Professor In-Jung Kim

## EXPERIENCE

### PRINCIPAL SUBJECTS

Mar 2023 – Dec 2024

HGU, Korea

- GEK10082 / Linear Algebra
- ITP20010 / Computer Vision
- ITP20002 / Discrete Mathematics
- ECE30007 / Introduction to AI Project
- ECE30021 / Operating Systems
- ECE30086 / Computer Networks
- ECE30087 / Probability and random processes

### TA Experience

Aug 2024 – Dec 2024

HGU, Korea

- ECE10020 / Introduction to Engineering Design

### IT Overseas Volunteer Club Member

Aug 2023 – Jan 2024

HGU, Korea

- Code Cross Club

### PPS Camp Participant

Jan 2023, Aug 2023, Jan 2024

HGU, Korea

- Regularly solving code problems during university summer and winter breaks

### Pytorch Camp Participant (held by Prof. In-Jung kim)

Dec 2022 – Jan 2023

HGU, Korea

- Learning basic PyTorch concepts and basic Python code utilizing PyTorch

### Machine Learning Camp Participant (held by Prof. Charmgil Hong)

Aug 2022

HGU, Korea

- Learning the concepts and applications of Machine Learning

## TECHNICAL SKILLS

### Language

Python, C++, Java

3 years

JS, HTML, CSS, Flutter, SQL, Assembly

4 months

### Frameworks

PyTorch, OpenCV

1.5 year

### TOEFL, TOEIC

100, 980