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Youngkwan Cho

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   **Yong-In, Korea**
Advisor: MyeongAh Cho   Aug 2025 — Present

B.S. AI Computer Science Engineering Major, Handong Global University   **Pohang, Korea**
GPA: 4.17/4.5 (Overall), 4.26/4.5 (Major)   Feb 2019 — Aug 2025
Advisor: Injung Kim

Mclean High School   **Mclean, VA, USA**
Diploma with High Honors   Aug 2015 — Aug 2018

RESEARCH

Undergraduate Research Engineer   **Pohang, Korea**
- DLLab(Deep Learning Lab) @ Handong Global University   Aug 2023 — Jan 2025
- 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

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

Semantic Segmentation and Object Recognition   **Aug 2023 — Dec 2023**
- 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**
- GEK10082 / Linear Algebra   HGU, Korea
- 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**
- ECE10020 / Introduction to Engineering Design   HGU, Korea

IT Overseas Volunteer Club Member   **Aug 2023 — Jan 2024**
- Code Cross Club   HGU, Korea

PPS Camp Participant   **Jan 2023, Aug 2023, Jan 2024**
- Regularly solving code problems during university summer and winter breaks   HGU, Korea

Pytorch Camp Participant (held by Prof. In-Jung kim)   **Dec 2022 — Jan 2023**
- Learning basic PyTorch concepts and basic Python code utilizing PyTorch   HGU, Korea

Machine Learning Camp Participant (held by Prof. Charmgil Hong)   **Aug 2022**
- Learning the concepts and applications of Machine Learning   HGU, Korea

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	