Mina **You**

Seongbuk-gu, Seoul / chamssal1212@gmail.com

EDUCATION

Kookmin University   **Expected Graduation Date:** February 2026
GPA: 3.83/4.5
Major GPA: 3.96/4.5
Completed Credit:119

Department of Electronic Engineering, Major in Electronic Systems Engineering

RESEARCH EXPERIENCE

Undergraduate Researcher, AiLab, Kookmin University   **July 2024 - December 2024**
- Advisor : Prof. Suchan Lee

- Assisted in a research project on improving the performance of a license plate recognition model in collaboration with HuNature.
- Implemented data preprocessing techniques, including forward processing and non-maximum suppression (NMS) algorithms.
- Configured CUDA and other hardware settings to facilitate efficient deployment of engine files on Jetson Orin NX, enabling real-time inference.
- Conducted annotation tasks for distinguishing arteries and veins in retinal images as part of a research project conducted by Prof. Suchan Lee at Bundang Seoul National University Hospital's Ophthalmology Research Institute.
- Attended the 2024 Korea Conference on Computer Vision (KCCV) in Busan (August 2024), gaining insights into the latest advancements in computer vision research.
- Participated in annotation tasks for segmenting surgical instruments in medical images, contributing to the development of a deep learning-based segmentation model.

FOSCAR, Autonomous Driving Research Club, Kookmin University   **July 2023 - Present**
- Co-authored and presented a poster at the Korean Society of Automotive Engineers (KSAE) on a study of robust visual-inertial odometry under varying illumination conditions.
- Developed real-time sensor processing and sensor fusion for LiDAR and camera data in an autonomous driving project.
- Awarded Honorable Mention in the Mando Autonomous Driving Competition (November 2023).
- Participated in the 2024 University Student Creative Mobility Competition, organized by the Korea Auto-Vehicle Safety Association (KASA), and achieved 2nd place in the preliminary round (November 2024).

ELCO, Electronic Engineering Academic Club, Kookmin University   **March 2022 - Present**

- Project 1: Developed a waste classification model using YOLO v8 for efficient recycling. Designed and built hardware to assist in waste collection based on categorized waste types.
- Project 2: Developed a gesture recognition-based interactive game ('Blue Flag, White Flag') using the MediaPipe library to track user movements.

Capstone Design Project 1 – IoT Smart Furniture for Solo Living Youth
March 2024 – June 2024
- Utilized Raspberry Pi to process signals from various sensors, control motors, and manage a database using basic SQL commands.
- Integrated sensor data acquisition, motor actuation, and database management to enable real-time monitoring and interaction.

Related Courses
- Computer Vision
- Deep Learning
- Digital Signal Processing
- Signals and Systems
- Probability Theory and Applications

EXTERNAL ACTIVITIES

Volunteer Instructor, Hyundai Motor Chung Mong-Koo Foundation – Gajo Elementary School, Gyeongsangnam-do, South Korea

31 July 2023 - 4 August 2023
- Designed and implemented interactive lessons on basic science concepts and coding fundamentals, fostering students' interest in STEM fields.
- Led hands-on activities to help students understand core coding principles using Scratch and basic programming logic**.**

Field Internship, Korea Radio Promotion Association   **20 January 2025 – 24 January 2025**
- Acquired foundational knowledge in digital communications and antenna theory, gaining a deeper understanding of core telecommunication principles.
- Conducted hands-on experiments in a shielded chamber, measuring electromagnetic signals using various radio frequency (RF) devices.

Member, Central Audit Committee, Kookmin University   **December 2024 - Present**
- Served as a Central Audit Committee member for the School of Software, overseeing the 2024-2 student council budget audit**.**
- Reviewed financial records by verifying expense reports, receipts, and payment confirmations to ensure proper and transparent use of student fees.

SKILLS

Software & Tools: ROS 1, VS Code, GitHub, Linux (Ubuntu), Microsoft Office Suite (Word, Excel, PowerPoint), Raspberry Pi 4, Jetson Orin NX, Arduino

Programming Languages: C, C++, Python, MATLAB, PyTorch

Language Skills: Korean (native), English (intermediate), Japanese (intermediate, JLPT N2)

SCHOLARSHIPS
- Academic Excellence Scholarship for the Next-Generation Communication Intermediate Course (June 2024)
- Competition Preparation Grant (December 2024)
- Encouragement Grant for Minoring in Next-Generation Quantum Secure Communication (December 2024)