

Hyunjoong Lee

📄 B.S. student in the School of Electronic and Electrical Engineering at Kyungpook National University (KNU)

☎ (+82) 10-2054-8887

✉ ancelmo0403@gmail.com

🌐 [HJLEE](#)

👤 Professional Profile

I am a B.S. student in the School of Electronic and Electrical Engineering at Kyungpook National University (KNU). My research interests cover automotive embedded systems and I am pursuing to implement the entire full stacks from low-level embedded firmware to autonomous driving algorithm, including the hardware systems, by interoperating human-interactive interfaces.

🔧 Research Experience

Multi-Camera Interoperable Emulation Framework (Jan 2024 - Apr 2024): Implementing Advanced Driver Assistance System (ADAS) using only a monocular camera. Streaming real-time screen to the web, receiving a frame, and transmitting information using TCP/IP communication. Detecting objects using YOLO. Removing distortion using camera calibration. Controlling a vehicle remotely. Updating an algorithm using Over-the-air programming.

3D Mapping based on a Depth Map using Stereo Vision (Apr 2024 -): Implementing own depth map generation model. Implementing 3D map based on depth map. Removing a shadow. Improving a realtime processing.

🎓 Education

Kyungpook National University (KNU)
School of Electronic and Electrical Engineering

In progress: *B.S. student*

⚙️ Technical Skills

- ✓ Autonomous Driving
- ✓ Camera Calibration
- ✓ Computer Vision
- ✓ Edge-Cloud AI Computing

🌟 Selected Publications

- 🌟 Multi-Camera Interoperable Emulation Framework Using Embedded Edge-Cloud AI Computing for Autonomous Vehicle Driving - IEEE Vehicular Networking Conference (VNC), 2024.

🗣️ Languages

- 🌐 Korean - Native
- 🌐 English - Business Competence

👍 References
