Kwanghoon Seok

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EDUCATION

Mar. 2019 ~ Feb. 2025	**Dankook University** School of Electronics and Electrical Engineering	Yongin, Korea

B.S. in Electronics and Electrical Engineering
GPA: 4.32 / 4.5

RESEARCH INTERESTS

- AI-Based Mobility Trajectory Generation
- Reinforcement learning
- Sequential Decision Making

PUBLICATIONS (DOMESTIC)

1. 김영기 강현욱 석광훈 김현준 김동규 나유승 조기춘, "자율주행 후보 경로 선택을 위한 계층적 지표 설계", KSAE, (2025)

2. 류승지 강현욱 정성재 나유승 김영기 석광훈 조기춘, "Mid-to-Mid 딥러닝 모델 기반 자율주행 검증 프레임워크 구축", KSAE, (2025)

3. 황영준 석광훈 김한솔, "T-S Fuzzy Model-Based Energy-to-Peak Control of a Vehicle Longitudinal Control System Using a Complementary State Feedback Controller", KIEE, (2025)

RESEARCH EXPERIENCES

- Research Intern at Future Automotive Mobility, Hanyang University, Korea (Jul. 2024 ~ Feb. 2025) / Mobility Planning
- Researcher at Future Automotive Mobility, Hanyang University, Korea (Mar. 2025 ~ Oct. 2025) / Planning based-on Deep Learning / HMG Projects
- Research Intern at Intelligent Robotics, Sungkyunkwan University, Korea (Jan. 2026 ~ Feb. 2026)

AWARDS AND HONORS

- 3rd Prize (Awarded 10 million KRW), Hyundai Motor Group, Korea (May. 2025)
- Finalist and Participation Award (Top 10 teams), International EV-organization, Korea (May. 2024)

- Finalist (Top 15 out of 352 teams), Hyundai Mobis Mobility, Korea (Feb. 2024)

- Excellence Award (Awarded 500,000 KRW), Seongnam city, Korea (Nov. 2023)

- National Excellence Scholarship (Science and Engineering) covering 100%, KOSAF, Korea (Feb. 2023 ~ Dec. 2024)

PROJECTS

- Integrated Collision Determination Module, Hyundai Motor Group, Korea (Feb. 2025 ~ Oct. 2025)

- Deep Learning-Based Driving Strategy Generation, Hyundai Motor Group, Korea (Feb. 2025 ~ Oct. 2025)

- CARLA Autonomous Challenge, Hanyang University, Korea (Jul. 2024 ~ Feb. 2025)

SKILLS AND TECHNIQUES

- Programming: Python, C++, MATLAB, LaTeX

- AI Frameworks: Pytorch, TensorFlow, JAX

- Robotics Tools: ROS/ROS2, Gazebo, MuJoCo, Isaac Gym, MORAI simulator