Hyunwoo Park
Autonomous driving software engineer

Planned life's path to planning a path

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18. June 1996

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PROGRAMMING LANGUAGES/ TOOLS

C++
●●●○○

Python
●●○○○

LANGUAGES

Korean
●●●●●

English
●●●●○

EDUCATION

Bachelor's degree in mechanical engineering
Yonsei University
03/2016 - 02/2022   *Seoul, Korea*

Autonomous Driving Engineer Course
Programmers Co.
03/2021 - 09/2021   *Seoul, Korea*

WORK EXPERIENCE

Internship
Multi-Disciplinary, Multi-Physics, Multi-Scale Design and Optimization Lab
08/2020 - 12/2020   *Seoul, Korea*
Yonsei university
Contact : *Prof. Jongsoo Lee - jleej@yonsei.ac.kr*

Motion Planning Engineer
ThorDrive
01/2022 - Present   *Seoul, Korea*
Achievements/Tasks
- Open space planner development
- Occlusion risk assessment and driving strategy development
- Path Planning development in urban environment
- Research on Motion Planning using Reinforcement Learning
- Research on Sim-to-Real transfer method for Reinforcement Learning agents
- Dynamic Obstacle Avoidance Module Development for Autonomous Mobile Robots in Logistics Factories

PUBLICATION

Trajectory Planning for Autonomous Vehicle Using Iterative Reward Prediction in Reinforcement Learning (04/2024)
Arxiv

Safe and Efficient Trajectory Optimization for Autonomous Vehicles using B-spline with Incremental Path Flattening (12/2024)
EEE Transactions on Intelligent Transportation Systems

Occlusion-aware Risk Assessment and Driving Strategy for Autonomous Vehicles Using Simplified Reachability Quantification (11/2023)
IEEE Robotics and Automation Letters

CERTIFICATE

Udacity Mentor Certification (10/2022 - Present)
- Motion Planning And Decision Making For Autonomous Vehicles

TOEIC (975, ENGLISH) (01/2021 - 01/2023)

OPIc (AL , ENGLISH) (02/2021 - 02/2023)