

# Dokeun Lee

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## RESEARCH INTEREST

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Reinforcement Learning, Motion Planning, Learning-Based Control, and Autonomous Driving.

## EDUCATION

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Sep. 2024 - present	M.S. in Electrical Engineering, UNIST Advisor: Jeong hwan Jeon	(GPA: 4.17/4.3)
Feb. 2019 - Aug. 2024	B.S. in Electrical Engineering, UNIST Advisor: Jeong hwan Jeon Thesis: Deep Reinforcement Learning for Multi-Tasking Robotic Arms in Isaac Gym	(GPA: 3.85/4.3)

## PUBLICATIONS

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### Conferences

- **Attention-Based Reinforcement Learning for Context-Aware Path Tracking Control**  
Dokeun Lee, Jeonghwan Song, Hyojae Lee, Jeong hwan Jeon  
*IEEE Intelligent Vehicles Symposium (IV)*, 2026
- **Reinforcement Learning-Based Approach for Real-Time Routing in Mobile Markets**  
Changju Kim, Jungeun Lee, **Dokeun Lee**, Jeong hwan Jeon  
*Summer Annual Conference of IEIE*, 2025

### Preprints

- **Demonstrating a Vision-Based AI Robot for Strategic Board Games**  
Taehwan Kim\*, **Dokeun Lee**\*, Seonghyeon Kim\*, Yongjun Choi\*, Sungjun Heo, Thi Thuy Ngan Duong, Kyungdon Joo, Namhun Kim, Jeong hwan Jeon, Hyemin Ahn  
(\*: Equal Contributions)

## PROJECTS

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**Development of Reinforcement Learning-Based Automated Driving AI Software Technology for Optimal Driving Behavior Decision in Hazardous Situations on Congested Roads** *Apr. 2024 – Dec. 2027*  
*Funded by IITP | Reinforcement Learning-Based Control Development*

**2025 Autonomous Driving AI Challenge**  
*3rd Place in Future Trajectory Prediction*  
Jeonghwan Song, Kyeongmin Do, **Dokeun Lee**

*News*  
*Aug. 2025 – Oct. 2025*

## PATENTS

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**System and Method for End-to-End Autonomous Driving Using a Reinforcement Learning-Based Control**  
Jeong hwan Jeon, **Dokeun Lee**, Hyojae Lee *Application in Aug. 2025*

# TEACHING & WORKING EXPERIENCE

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## Ulsan National Institute of Science and Technology

EEE351 Automatic Control, Teaching Assistant	<i>Spring 2025</i>
MTH201 Differential Equations, Teaching Assistant	<i>Fall 2023</i>
MTH111 Calculus I, Teaching Assistant	<i>Spring 2022</i>

# HONORS & AWARDS

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<b>3rd Place in Vehicle Trajectory Prediction, 2025 Autonomous Driving AI Challenge</b> ( <i>1,500,000 KRW Prize</i> )	<i>Oct. 2025</i>
<b>Academic Honors</b>	<i>Spring 2022, Spring 2023, Spring 2024</i>
<b>Government-Funded Graduate Scholarship</b> ( <i>Full-funded</i> )	<i>Sep. 2024 – Aug. 2026</i>
<b>UNIST Academic Performance Scholarship</b> ( <i>3.5-Year Full-funded</i> )	<i>Feb. 2019 – Aug. 2024</i>

# SKILLS

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Languages	Korean – Native, English – Intermediate
Programming Languages	Python, C++, MATLAB
Software & Tools	PyTorch, Linux, CUDA, nuPlan, CARLA, NVIDIA Isaac Gym, ROS, Gazebo, Git, Docker
Reviewer	IEEE IV (2026)