JongSoo Lee

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Email.   **dldnxks12@naver.com**

Github. https://github.com/dldnxks12

blog.   https://dldnxks12.github.io/

| **Education** | **KwangWoon University**
College of Electronics & Information Engineering
Intelligence System in Division of Robotics
(**GPA**: 3.9/4.5, **Major GPA**: 4.02/4.5) | 2014.3. – 2022.8 |

Reserch Experience

KAIST, Daejeon, Republic of Korea   2021.12 – 2022.3
Machine Decision Intelligence & Learning Research Group
Research Intern (Supervisor: Prof. DongHwan Lee)

- Reinforcement Learning : From basic theory to the latest research

KwangWoon Univ, Seoul, Republic of korea   2021.1 – 2021.12
Nature-Inspired Intelligent Lab
Research Intern (Supervisor: Prof. KiBack Lee)

- Deep Learning : Semantic segmentation and image classification
- Paper Study   : Image processing and natural language processing
- Co-Author of BUSI dataset Segmentation Method Paper (MDPI)

KwangWoon Univ, Seoul, Republic of korea   2020.5 – 2020.9
Robotics and Artificial Intelligence Lab
Research Intern (Supervisor: Prof. JeongHyun Oh)

- Computer Vision theory
- Robot Navigating theory
- Deep Learning theory related to Robotics

KwangWoon Univ, Seoul, Republic of korea   2019.10 – 2020.3
Bio-Computing and Machine Learning Lab
Research Intern (Supervisor: Prof. CheolSoo Park)

- Machine Learning : From basic theory to the latest research

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Projects Experience	• F1TENTH Autonomous Driving Car Simulation (1st) • Solve and Improve Bi Pedal Walker (OpenAI) • Image Segmentation and Style Transferring • 3 Dof Arm Control Simulation • 1 Dof Arm Control with Atmega128 • Design Compensator of DC Motor Speed Controller • 7 Sensor smart plant keeper with Atmega128 • Remote Control CCTV and Feeder with Raspberry PI • Line Tracer with VHDL • Health Care data processing competition in 2021 AI Hackerthon

Research Interest	• Reinforcement Learning theory and application
	  - Reinforcement Learning theory
	  - RL based robot motion / path planning
	  - RL based robot arm / leg control
	  - Vision based control

Awards/ Scholarship	2021-2 차석 Dean's List 2020-2 창업보육투자유치대회 우수상

Programming Skills	**Programming Languages** • Advanced : Python • Intermediate : C/C++, Matlab • Novice: Java, Linux **Software & Hardware Tools** • ROS, OpenAI Gym, OpenCV, Arduino, Raspberry PI, AVR • SOLIDWORKDS (Novice) **Reinforcement Learning** • Using DQN, DDPG, REINFORCE …etc. at OpenAI Gym: Pendulum-v0 • Using DDPG, TD3, PPO …etc. at OpenAI Gym: Bipedal Walker-v3 **Deep Learning** • Image processing with Modern CNN • Semantic segmentation **Machine Learning** • Regression / Classification