

EDUCATION	Eindhoven University of Technology <i>M.Sc. in Artificial Intelligence and Engineering Systems</i>	Eindhoven, The Netherlands 2024.09 – Present
	Eindhoven University of Technology <i>M.Sc. in Artificial Intelligence and Engineering Systems</i> <ul style="list-style-type: none"> • Current Grade: 9.23/10.0 (Dutch Grading System) 	
	Yonsei University <i>B.Sc. in Electrical and Electronic Engineering, Minor in Physics</i> <ul style="list-style-type: none"> • Thesis: <i>Accelerated mGRE Image Reconstruction for MWI via Deep Learning</i> • Advisor: Prof. Dong-hyun Kim • Final Grade: 98.1/100 	Seoul, Republic of Korea 2015.03 – 2023.08
EXPERIENCE	TNO <i>Project Internship, as a Part of AI&ES Program</i>	Helmond, The Netherlands 2025.02 – 2025.06
	TNO <i>Project Internship, as a Part of AI&ES Program</i> <ul style="list-style-type: none"> • Traffic Light Perception System for Automated Driving in the Netherlands Delivered full-stack solution for traffic light perception: data collection, annotation, object detection, and 3D tracking. 	Helmond, The Netherlands 2025.02 – 2025.06
	KAIST (Visual AI Lab) <i>Undergraduate internship, advised by Prof. Minhyuk Sung.</i>	Daejeon, Republic of Korea 2021.12 – 2022.12
	KAIST (Visual AI Lab) <i>Undergraduate internship, advised by Prof. Minhyuk Sung.</i> <ul style="list-style-type: none"> • Hyperbolic Embedding Space for Language-driven Shape Manipulation Derived the projection of text to shape region in hyperbolic CLIP embedding space to reduce training time. • Differentiable Discrete Poisson Solver Devised fast differentiable Poisson equation solver, enabling deep learning integration. 	Daejeon, Republic of Korea 2021.12 – 2022.12
	Kakao Mobility <i>Research Intern</i>	Seoul, Republic of Korea 2021.07 – 2021.08
	Kakao Mobility <i>Research Intern</i> <ul style="list-style-type: none"> • Developed real-time continuous-time SLAM using bounded surface features for large-scale indoor mapping. • Implemented multi-LiDAR movement distortion correction using IMU and LiDAR–LiDAR calibration. 	Seoul, Republic of Korea 2021.07 – 2021.08
	Stryx (acquired by Kakao Mobility) <i>Research Intern</i>	Seoul, Republic of Korea 2020.01 – 2021.02
	Stryx (acquired by Kakao Mobility) <i>Research Intern</i> <ul style="list-style-type: none"> • Developed pointcloud registration algorithms for city-scale HD mapping. • Designed GPS noise detection and reduction methods for precise localization. • Improved SLAM feature extraction for indoor–outdoor map integration. • Worked on LiDAR+IMU localization algorithms for tunnels. 	Seoul, Republic of Korea 2020.01 – 2021.02
	Republic of Korea Army <i>Coast Guard</i>	Republic of Korea 2018.03 – 2019.11
	Republic of Korea Army <i>Coast Guard</i> <ul style="list-style-type: none"> • Mandatory Military Service. 	Republic of Korea 2018.03 – 2019.11
PATENTS	Method of estimating the location of a moving object using vector map (KR102624644B1)	2020
	Method of estimating the location of a moving object using vector map (KR102624644B1) <ul style="list-style-type: none"> • Work done at Kakao Mobility. 	2020
AWARDS	Yonsei Honors Program – Merit-based Full Scholarship, Yonsei University	2015.03

SKILLS

Programming: C++, Python, ROS, Linux, Git, LaTeX

Languages: Korean (Native), English (C1), Dutch (A1)

EXTRAS

Backpacking | Around the World

2017.07 – 2017.09, 2023.02 – 2023.08

- Period of personal exploration.

Playing/Listening Music | Jazz/Rock/House

Whenever I have time

- Playing Guitar, Bass and sometimes Djembe.

Guitar/Bass Effect Development | Audio Circuit Design

Whenever I have time

- Nonlinear analog circuit design for guitar/bass signal processing.
- Simulation of effects/amplifiers for real-time deployment based on NAM.
- Building effect pedals with designed circuits.