

EDUCATION	<b>Eindhoven University of Technology</b> <i>M.Sc. in Artificial Intelligence and Engineering Systems</i> • Current Grade: 9.23/10.0 (Dutch Grading System) Eindhoven, The Netherlands 2024.09 – Present
	<b>Yonsei University</b> <i>B.Sc. in Electrical and Electronic Engineering, Minor in Physics</i> • 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	<b>TNO</b> <i>Project Internship, as a Part of AI&amp;ES Program</i> • <b>Traffic Light Perception System for Automated Driving in the Netherlands</b> Delivered full-stack solution for traffic light perception: data collection, annotation, object detection, and 3D tracking. Helmond, The Netherlands 2025.02 – 2025.06
	<b>KAIST (Visual AI Lab)</b> <i>Undergraduate internship, advised by Prof. Minhyuk Sung.</i> • <b>Hyperbolic Embedding Space for Language-driven Shape Manipulation</b> Derived the projection of text to shape region in hyperbolic CLIP embedding space to reduce training time. • <b>Differentiable Discrete Poisson Solver</b> Devised fast differentiable Poisson equation solver, enabling deep learning integration. Daejeon, Republic of Korea 2021.12 – 2022.12
	<b>Kakao Mobility</b> <i>Research Intern</i> • 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
	<b>Stryx (acquired by Kakao Mobility)</b> <i>Research Intern</i> • 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
	<b>Republic of Korea Army</b> <i>Coast Guard</i> • Mandatory Military Service. Republic of Korea 2018.03 – 2019.11
PATENTS	<b>Method of estimating the location of a moving object using vector map</b> (KR102624644B1) • Work done at Kakao Mobility. 2020
AWARDS	<b>Yonsei Honors Program – Merit-based Full Scholarship, Yonsei University</b> 2015.03

SKILLS	<b>Programming:</b> Python, C++, C#, ROS, Git, Unity <b>Languages:</b> Korean (Native), English (C1), Dutch (A1)	
EXTRAS	<b>Backpacking</b>   Around the World • Period of personal exploration.	2017.07 – 2017.09, 2023.02 – 2023.08
	<b>Playing/Listening Music</b>   Jazz/Rock/House • Playing Guitar, Bass and sometimes Djembe.	Whenever I have time
	<b>Guitar/Bass Effect Development</b>   Audio Circuit Design • 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.	Whenever I have time