

EDUCATION	<b>Eindhoven University of Technology</b> <i>M.Sc. in Artificial Intelligence and Engineering Systems</i> <ul style="list-style-type: none"> <li>• Current Grade: 9.23/10.0 (Dutch Grading System)</li> </ul>	Eindhoven, The Netherlands 2024.09 – Present
	<b>Yonsei University</b> <i>B.Sc. in Electrical and Electronic Engineering, Minor in Physics</i> <ul style="list-style-type: none"> <li>• Thesis: <i>Accelerated mGRE Image Reconstruction for MWI via Deep Learning</i></li> <li>• Advisor: Prof. Dong-hyun Kim</li> <li>• Final Grade: 4.06/4.30 (Korean Grading System)</li> </ul>	Seoul, Republic of Korea 2015.03 – 2023.08
EXPERIENCE	<b>TNO</b> <i>Team Internship, as a Part of AI&amp;ES Program</i> <ul style="list-style-type: none"> <li>• Traffic Light Perception System for Automated Driving in the Netherlands</li> <li>Delivered full-stack solution for traffic light perception: data collection, annotation, object detection, and 3D tracking.</li> </ul>	Helmond, The Netherlands 2025.02 – 2025.06
	<b>KAIST (Visual AI Lab)</b> <i>Undergraduate internship, advised by Prof. Minhyuk Sung.</i> <ul style="list-style-type: none"> <li>• Hyperbolic Embedding Space for Language-driven Shape Manipulation</li> <li>Derived the projection of text to shape region in hyperbolic CLIP embedding space to reduce training time.</li> <li>• Differentiable Discrete Poisson Solver</li> <li>Devised fast differentiable Poisson equation solver, enabling deep learning integration.</li> </ul>	Daejeon, Republic of Korea 2021.12 – 2022.12
	<b>Kakao Mobility</b> <i>Research Intern</i> <ul style="list-style-type: none"> <li>• Developed real-time continuous-time SLAM using bounded surface features for large-scale indoor mapping.</li> <li>• Implemented multi-LiDAR movement distortion correction using IMU and LiDAR–LiDAR calibration.</li> </ul>	Seoul, Republic of Korea 2021.07 – 2021.08
	<b>Stryx (acquired by Kakao Mobility)</b> <i>Research Intern</i> <ul style="list-style-type: none"> <li>• Developed pointcloud registration algorithms for city-scale HD mapping.</li> <li>• Designed GPS noise detection and reduction methods for precise localization.</li> <li>• Improved SLAM feature extraction for indoor–outdoor map integration.</li> <li>• Worked on LiDAR+IMU localization algorithms for tunnels.</li> </ul>	Seoul, Republic of Korea 2020.01 – 2021.02
	<b>Republic of Korea Army</b> <i>Coast Guard</i> <ul style="list-style-type: none"> <li>• Mandatory Military Service.</li> </ul>	Republic of Korea 2018.03 – 2019.11
PATENTS	<b>Method of estimating the location of a moving object using vector map</b> (KR102624644B1) <ul style="list-style-type: none"> <li>• Work done at Kakao Mobility.</li> </ul>	2020
AWARDS	<b>Yonsei Honors Program – Merit-based Full Scholarship</b> , Yonsei University	2015.03

## SKILLS

**Programming:** Python, C++, C#, ROS, Git, Unity

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

## EXTRAS

### Backpacking | Around the World

2017.07 – 2017.09, 2023.02 – 2023.08

- 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.