

Junseo Kim

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<https://junseokim19.github.io/>

Interests

Robotics: Control, SLAM, Distributed systems, Reinforcement Learning

Education

Toronto Metropolitan University <i>Mechanical Engineering - Mechatronics Option CGPA(3.79/4.33)</i>	09/2018 – Present Toronto, ON, Canada
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Research Experience

The Robotics and Computer Vision Lab (RCVL) <i>Toronto Metropolitan University - Supervised by Dr.Sajad Saeedi</i> <ul style="list-style-type: none">Multi-robot SLAM with distributed learning	04/2023 – Present Toronto, Canada
Autonomous Vehicles Laboratory (AVL) <i>Toronto Metropolitan University - Supervised by Dr.Reza Faieghi</i> <ul style="list-style-type: none">3D object detection for autonomous driving cars using CNN-based YOLO Algorithm	01/2023 – Present Toronto, Canada
Sustainable Packaging Research Lab (SUPAR) <i>Toronto Metropolitan University - Supervised by Dr.Jonghun Park</i> <ul style="list-style-type: none">Life Cycle Assessment and Vibration analysis of packaging	09/2022 – Present Toronto, Canada
Korea Additive Manufacturing Innovation Center (KAMIC) <i>Korea Institute of Industrial Technology (KITECH) - Supervised by Dr.Hyub Lee</i> <ul style="list-style-type: none">Laser Wire Direct Energy Decomposition 3D Printing with KUKA Robotic arms	07/2022 – 08/2022 Siheung, South Korea

Other Experience

HyperLoop Guidance and Navigation researcher <i>Toronto Metropolitan University</i> <ul style="list-style-type: none">Kalman filter implementation to Arduino reducing the noise in IMU	11/2022 – 05/2023 Toronto, Canada
Automobile Mechanics <i>Republic of Korea Military Army</i> <ul style="list-style-type: none">Military purpose automobile repair and maintenance	12/2020 – 06/2022 Cheolwon, South Korea

Awards & Honors

Korean Canadian Scientists Scholarship Foundation Award <i>The Association of Korean-Canadian Scientists and Engineers</i>	2023
Dean's List <i>Toronto Metropolitan University</i>	2022 - 2023
The Norman ESCH Award Stage 1 <i>Toronto Metropolitan University - Supervised by Dr.ChungHyuyk Lee</i>	2023
Dean's List <i>Toronto Metropolitan University</i>	2019 - 2020
Solidworks certificate of Mechanical Design <i>Dassault Systems</i>	2019

Specialized Skills

Programming: Python (intermediate), C/C++ (basic), Tensorflow (intermediate)

3D modeling: CATIA (intermediate), Solidworks (intermediate), Inventor (basic), Autocad (basic)

Language: English (Advanced), Korean (Advanced), Mandarin (Advanced)

Other skills: Linux, Microsoft Office, Adobe Photoshop, Adobe Illustrator