

Junseo(Jason) Kim

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Education

**Note: Includes 18 months of military service*

Toronto Metropolitan University (Formerly Ryerson University) <i>BEng in Mechanical Engineering - Mechatronics</i>	09/2018 – 06/2024* 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>	04/2023 – Present Toronto, Canada
Autonomous Vehicles Laboratory (AVL) <i>Toronto Metropolitan University - Supervised by Dr. Reza Faieghi</i>	01/2023 – Present Toronto, Canada
Geometric Computing Lab <i>Toronto Metropolitan University - Supervised by Dr. Yeganeh Bahoo</i>	05/2023 – Present Toronto, Canada
Korea Additive Manufacturing Innovation Center (KAMIC) <i>Korea Institute of Industrial Technology (KITECH) - Supervised by Dr. Hyub Lee</i>	07/2022 – 08/2022 Siheung, South Korea

Publications

[P3] I.Mehta, **J.Kim**, S.Taghipour, and S. Saeedi. *M³RS: Multi-agent, Multi-objective, and Multi-mode Routing and Scheduling*. <https://arxiv.org/abs/2403.16275> (*IEEE Robotics and Automation Letters*)(Under Review)

[P2] **J.Kim**, J. Zalat, Y. Bahoo, and S. Saeedi. *Structure from WiFi (SfW): RSSI-based Geometric Mapping of Indoor Environments*. <https://arxiv.org/abs/2403.02235> (*The American Control Conference (ACC) 2024*)(Accepted)

[P1] M. Lisondra*, **J.Kim***, R. Murai, K.Zareinia, and S. Saeedi. *Visual Inertial Odometry using Focal Plane Binary Features (BIT-VIO)*. <https://arxiv.org/abs/2403.09882> (*The International Conference on Robotics and Automation (ICRA) 2024*)(Accepted)

Interests

Robotics, Simultaneous Localization and Mapping (SLAM), State estimation, Autonomous Driving, Computer Vision

Other Experience

HyperLoop Guidance and Navigation researcher <i>Toronto Metropolitan University - Hyperloop Design Team</i>	11/2022 – 04/2023 Toronto, Canada
Automobile Mechanics <i>Republic of Korea Military Army</i>	12/2020 – 06/2022 Cheolwon, South Korea
Association of Korean-Canadian Scientists and Engineers - President <i>Toronto Metropolitan University Chapter(YG)</i>	09/2019 – 08/2020 Toronto, Canada

Awards & Honors

Gwangyang Municipal Baegun Scholarship

Gwangyang city Baegun Scholarship Association

2023

Korean Canadian Scientists Scholarship Foundation Award

The Association of Korean-Canadian Scientists and Engineers

2023

Dean's List

Toronto Metropolitan University

2022 - 2023

UIRO(Undergraduate Interdisciplinary Research Opportunities) Award

Toronto Metropolitan University - Co-Supervised by Dr.Sajad Saeedi and Dr. Yeganeh Bahoo

2023

The Norman ESCH Award Stage 1

Toronto Metropolitan University - Supervised by Dr. ChungHywyk Lee

2023

Dean's List

Toronto Metropolitan University

2019 - 2020

Solidworks certificate of Mechanical Design

Dassault Systems

2019

Relevant Skills

Programming: Python, C

Libraries: ROS, OpenCV, PyBullet, Matplotlib, Gazebo

Language: English, Korean, Mandarin

Other skills: Linux, LaTeX, Ubuntu, CATIA, Solidworks, Autocad