

Junseo(Jason) Kim

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Education

**Note: Includes 18 months of military service*

Delft University of Technology (TU Delft) <i>Msc in Robotics</i>	09/2024 – 07/2026 (Expected) Delft, Netherlands
Toronto Metropolitan University (Formerly Ryerson University) <i>BEng in Mechanical Engineering - Mechatronics</i>	09/2018 – 06/2024* Toronto, ON, Canada

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*. Project Website: <https://sites.google.com/view/g-robot/m3rs/> (Preprint)
- [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)*. Website : <https://sites.google.com/view/bit-vio/home> (The International Conference on Robotics and Automation (ICRA) 2024)(Accepted)

Interests

Robotics, Simultaneous Localization and Mapping (SLAM), State estimation, Autonomous Driving, Probabilistic approach

Other Experience

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

Awards & Honors

Justus and Louise van Effen Excellence Scholarship <i>Delft University of Technology</i>	2024
Gwangyang Municipal Baegun Scholarship <i>Gwangyang city Baegun Scholarship Association</i>	2023
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
UIRO(Undergraduate Interdisciplinary Research Opportunities) Award <i>Toronto Metropolitan University - Co-Supervised by Dr.Sajad Saeedi and Dr. Yeganeh Bahoo</i>	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

Relevant Skills

Programming: Python, C
Libraries: ROS, OpenCV, PyBullet, Matplotlib, Gazebo
Language: English, Korean, Mandarin
Other skills: Linux, LaTeX, Ubuntu, CATIA, Solidworks, Autocad