

# Junseo(Jason) Kim

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## Education

*\*Note: Includes 18 months of military service*

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

## Research Experience

<b>The Robotics and Computer Vision Lab (RCVL)</b> <i>Toronto Metropolitan University - Supervised by Dr. Sajad Saeedi</i>	04/2023 – Present Toronto, Canada
<b>Autonomous Vehicles Laboratory (AVL)</b> <i>Toronto Metropolitan University - Supervised by Dr. Reza Faieghi</i>	01/2023 – Present Toronto, Canada
<b>Geometric Computing Lab</b> <i>Toronto Metropolitan University - Supervised by Dr. Yeganeh Bahoo</i>	05/2023 – Present Toronto, Canada
<b>Korea Additive Manufacturing Innovation Center (KAMIC)</b> <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. *M<sup>3</sup>RS: 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)*. <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, Probabilistic approach

## Other Experience

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

#### *Awards & Honors*

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<b>Justus and Louise van Effen Excellence Scholarship</b> <i>Delft University of Technology</i>	2024
<b>Gwangyang Municipal Baegun Scholarship</b> <i>Gwangyang city Baegun Scholarship Association</i>	2023
<b>Korean Canadian Scientists Scholarship Foundation Award</b> <i>The Association of Korean-Canadian Scientists and Engineers</i>	2023
<b>Dean's List</b> <i>Toronto Metropolitan University</i>	2022 - 2023
<b>UIRO(Undergraduate Interdisciplinary Research Opportunities) Award</b> <i>Toronto Metropolitan University - Co-Supervised by Dr.Sajad Saeedi and Dr. Yeganeh Bahoo</i>	2023
<b>The Norman ESCH Award Stage 1</b> <i>Toronto Metropolitan University - Supervised by Dr. ChungHyuyk Lee</i>	2023
<b>Dean's List</b> <i>Toronto Metropolitan University</i>	2019 - 2020
<b>Solidworks certificate of Mechanical Design</b> <i>Dassault Systems</i>	2019

#### *Relevant Skills*

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