# Junseo(Jason) Kim

Mekelweg 5
2628 CD Delft, Netherlands

1-437-974-8526
J.Kim-18@student.tudelft.nl
https://junseokim19.org/

## Education

[†] *Note: Includes 18 months of military service*

| | |
|---|---|
| **Delft University of Technology** *(TU Delft)* | 09/2024 – Present |
| *Msc in Robotics* | *Delft, Netherlands* |
| **Toronto Metropolitan University** *(Formerly Ryerson University)* | 09/2018 – 06/2024[†] |
| *BEng in Mechanical Engineering - Mechatronics (With Distinction)* | *Toronto, ON, Canada* |

## Research Experience

| | |
|---|---|
| **The Robotics and Computer Vision Lab (RCVL)** | 04/2023 – 08/2024 |
| *Toronto Metropolitan University - Supervised by Dr. Sajad Saeedi* | *Toronto, Canada* |
| **Geometric Computing Lab** | 05/2023 – 08/2024 |
| *Toronto Metropolitan University - Supervised by Dr. Yeganeh Bahoo* | *Toronto, Canada* |
| **Korea Additive Manufacturing Innovation Center (KAMIC)** | 07/2022 – 08/2022 |
| *Korea Institute of Industrial Technology (KITECH) - Supervised by Dr. Hyub Lee* | *Siheung, South Korea* |

## Publications

*Note: Equal Contribution, P: Preprint, C: Conference*

[P2] **J.Kim**, M.Lisondra, Y.Bahoo, and S. Saeedi. *Inverse k-visibility for RSSI-based Indoor Geometric Mapping.* https://arxiv.org/abs/2408.07757

[P1] I.Mehta, **J.Kim**, S.Taghipour, and S. Saeedi. *$M^3RS$: Multi-agent, Multi-objective, and Multi-mode Routing and Scheduling.* https://arxiv.org/abs/2403.16275

[C2] **J.Kim**, J. Zalat, Y. Bahoo, and S. Saeedi. *Structure from WiFi (SfW): RSSI-based Geometric Mapping of Indoor Environments. 2024 American Control Conference (ACC), Toronto, ON, Canada, 2024, pp. 259-264*

[C1] M. Lisondra[*], **J.Kim**[*], R. Murai, K.Zareinia, and S. Saeedi. *"Visual Inertial Odometry using Focal Plane Binary Features (BIT-VIO)". 2024 IEEE International Conference on Robotics and Automation (ICRA), Yokohama, Japan, 2024, pp. 1661-1668,* doi: 10.1109/ICRA57147.2024.10610838.

## Interests

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

## Other Experience

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

## Awards & Honors

**Justus and Louise van Effen Excellence Scholarship**
*Delft University of Technology*                                                         *2024 - 2026*

**Dean's List**
*Toronto Metropolitan University*                                                        *2023 - 2024*

**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. ChungHyuk 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

## Service - Reviewer

**International Conference on Intelligent Robots and Systems (IROS):** 2024