Junseo(Jason) Kim

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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

Bot Intelligence Group (BIG)   08/2025 – Present
Carnegie Mellon University, Robotics Institute - Supervised by Dr. Jean Oh   *Pittsburgh, PA, United States*

Autonomous Multi-Robots Lab   10/2024 – Present
Delft University of Technology - Supervised by Dr. Javier Alonso-Mora   *Delft, Netherlands*

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, J: Journal

[J1] M. Lisondra*, **J.Kim***, G.Shimoda, K.Zareinia, and S. Saeedi *TCB-VIO: Tightly-Coupled Focal-Plane Binary-Enhanced Visual Inertial Odometry. IEEE Robotics and Automation Letters, 2025, pp. 1-8,* doi:10.1109/LRA.2025.3619774.

[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 (Under Review)

[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 (Under Review)

[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,* doi: 10.23919/ACC60939.2024.10644833.

[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.

Robotics, Robot Learning, Generative AI, Reinforcement Learning, Sim2Real, Physics Simulation, Visual Language action models

Other Experience

Visiting Research Scholar	8/2025 – 7/2026
Carnegie Mellon University	*Pittsburgh, PA, United States*
Board of Studies - Master Robotics Program	10/2024 – 10/2025
Delft University of Technology	*Delft, Netherlands*
Project Sapience (Cooperative Drone Competition) - TU Delft Team	10/2024 – 07/2025
NATO Science for Peace and Security Program - Supervised by Dr. Ewoud Smeur	*Delft, Netherlands*
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 Research Grant	
Delft University of Technology - Carnegie Mellon University	*2025*
Justus and Louise van Effen Excellence Scholarship - *Fully Funded*	
Delft University of Technology	*2024 - 2026*
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*
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, 2022-2024*
Solidworks certificate of Mechanical Design	
Dassault Systems	*2019*

Service - Reviewer

International Conference on Robotics and Automation (ICRA): 2026
International Conference on Intelligent Robots and Systems (IROS): 2024

Relevant Skills

Programming: Python, C / C++
Language: English, Korean, Mandarin
Other skills: ROS 1/2, Linux, LaTex