

Junseo(Jason) Kim

87 Gerrard Street E
Toronto, ON, Canada, M5B 2M2

1-437-974-8526
junseo.kim@torontomu.ca
<https://junseokim19.org/>

Education

**Note: Includes 18 months of military service*

Toronto Metropolitan University (Formerly Ryerson University) <i>BEng in Mechanical Engineering - Mechatronics</i>	09/2018 – Present* 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 - Preprint

[P2] **J.Kim**, J. Zalat, Y. Bahoo, and S. Saeedi. *Structure from WiFi (SfW): RSSI-based Geometric Mapping of Indoor Environments*. Preprint : <https://sites.google.com/view/structure-from-wifi/home> (Submitted to *The American Control Conference (ACC) 2024*)

[P1] M. Lisondra*, **J.Kim***, R. Murai, K.Zareinia, and S. Saeedi. *Visual Inertial Odometry using Focal Plane Binary Features (BIT-VIO)*. Preprint : <https://sites.google.com/view/bit-vio/home> (Submitted to *The International Conference on Robotics and Automation (ICRA) 2024*)

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
-----------------------------------------------------------------------------------------------------------------------	--------------------------------------

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

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. ChungHyuyk 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