Junseo(Jason) Kim

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Education

Toronto Metropolitan University *(Formerly Ryerson University)*   09/2018 – Present
BEng in Mechanical Engineering - Mechatronics   *Toronto, ON, Canada*

Research Experience

The Robotics and Computer Vision Lab (RCVL)   04/2023 – Present
Toronto Metropolitan University - Supervised by Dr. Sajad Saeedi   *Toronto, Canada*

Autonomous Vehicles Laboratory (AVL)   01/2023 – Present
Toronto Metropolitan University - Supervised by Dr. Reza Faieghi   *Toronto, Canada*

Geometric Computing Lab   05/2023 – Present
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 - 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   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

Korean Canadian Scientists Scholarship Foundation Award
The Association of Korean-Canadian Scientists and Engineers   *2023*

Dean's List
Toronto Metropolitan University   *2022 - 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