

MINYOUNG CHANG

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EDUCATION

Columbia University • New York City, NY Aug. 2020 – Dec. 2021 (Expected)
Masters of Science in Computer Science

Cornell University • Ithaca, NY Aug. 2014 – Aug. 2019
Bachelor of Science in Mechanical Engineering, Cum Laude

FIELDS OF INTEREST

Robotic Perception, Computer Vision, Deep Learning

WORK EXPERIENCE

Graduate Student Intern | Clova AI, Seongnam, Korea Apr. 2020 – Aug. 2020

- Developed a deep learning-based lane detection algorithm for a video stream from a self-driving car

Researcher | NAVER LABS, Seongnam, Korea Sep. 2019 – Apr. 2020

- The first author of "SpoxelNet: Spherical Voxel-based Deep Place Recognition in 3D Point Clouds of Crowded Indoor Spaces" (IEEE/RSJ IROS 2020, under review)
- Preprocessed large, messy 3D point cloud data of VLP-16 LiDAR sensors
- Developed an algorithm that rapidly removes moving objects in 3D point clouds

Research Assistant | Cornell Autonomous Systems Lab, Ithaca, NY Jan. 2019 – Aug. 2019

- 3D SLAM using LiDAR, ZED stereo camera, and JACKAL robot
- Developed reinforcement learning simulation for driving a miniature car
- Implemented YOLO object detection algorithm for a miniature self-driving car
- Vision-based object tracking with YOLO and ZED stereo camera
- Sensor fusion simulation with LiDAR and RADAR using extended Kalman Filter
- Vision-based lane detection algorithm for a self-driving car
- Deep learning algorithm for image classification

Research Assistant | Cornell HRC² Lab, Ithaca, NY June 2018 – Dec. 2018

- Rapid Prototyping for designed Robot models
- Worked on developing Robot hardware and interaction between Human and Robot
- Beta-tested Artificial Intelligence based modeling program from Autodesk – Generative Design

ADDITIONAL EXPERIENCE

Sergeant | ROK Army Special Forces, Sweihan, United Arab Emirates July 2016 – Apr. 2018

- Participated in ROK-UAE Special Warfare and Counter-Terrorism Joint Trainings
- Interpreted Weekly Joint Staff Meetings and Daily Mission Brief
- In charge of external relations and communication with UAE Ministry of Defense and Special Warfare Command

TECHNICAL SKILLS

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- Programming languages: Python (TensorFlow, Keras, Pytorch), C++, ROS, MATLAB
 - Languages: English(fluent), Korean(native), Spanish(intermediate)