

Min Young Chang

Detailed Information at: “ <https://minyong.info> ”

400 College Ave, Suite 402
Ithaca, NY 14850
mc968@cornell.edu
(+1) 774-775-2829

EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Mechanical Engineering, *Cum Laude*
Master of Engineering, Mechanical Engineering (**expected May 2020**)
Major GPA: 3.78; General GPA: 3.72

Relevant Courses: Computer Vision; Automotive Engineering; System Dynamics; Mechatronics; Differential Equations; Linear Algebra; Engineering Probability; Object-oriented Programming (JAVA); MATLAB;

FIELD OF INTEREST

Computer Vision, SLAM, Sensor Fusion, Machine Learning, Self-Driving, Robotics, Autonomous System

ENGINEERING EXPERIENCE

Cornell Autonomous Systems Lab, Cornell University, Ithaca, NY, *Researcher* **Jan. 2019 - Present**

- 3D Simultaneous Localization and Mapping(SLAM) using ZED Stereo Camera, Lidar, and JACKAL
- Sensor Fusion on Lidar and Radar using Kalman Filter
- Object Tracking and Distance measurement using ZED Stereo Camera and JACKAL
- Reinforcement Learning Simulation on Car Control, in TensorFlow
- Lane Detection algorithm for Self-Driving Car
- Deep Learning Algorithm for image identification

Human Robot Collaboration & Companion Lab, Cornell University, Ithaca, NY, *Researcher* **May 2018 – Jan. 2019**

- 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

Cornell FSAE, Cornell University, Ithaca, NY, *Chasis Team Member* **Jan. - May 2016**

- Worked on analyzing various 3D models of mechanical parts using Ansys Simulation
- Analysis on topology and stress distribution of models

SKILLS

- **Programming:** Python(TensorFlow, Keras, Pandas), ROS, C++, MATLAB, Java
- **Languages:** English(fluent); Korean(fluent); Spanish(intermediate); Arabic(basic)

ADDITIONAL EXPERIENCE

ROK Army Special Force (SW Unit in UAE), Sweihan UAE, *Special Force / Interpreter* **Feb. - Dec. 2017**

- 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

ROK Army Aviation Operations Command, Icheon ROK, Command and Control Center **July 2016 - Jan. 2017**

- In charge of peacetime & wartime situation control and report to the Joint Chiefs of Staff and Army Headquarters
- Interpreted meetings during ROK-US Joint Military Trainings