Min Young Chang

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY   **Expected Dec. 2019**
Bachelor of Science, Mechanical Engineering
Computer Science Minor
GPA: 3.719; Dean's List Spring 2015, Spring 2016, Fall 2018

Relevant Courses: *Automotive Engineering; Mechatronics;* System Dynamics; Mechatronics; Heat Transfer; Fluid Mechanics; Dynamics; Mechanical Properties; Mechanical Synthesis; Thermodynamics; Statics; MATLAB; Object-oriented Programming (JAVA); Engineering Probability and Statistics; Differential Equations; Linear Algebra

ENGINEERING EXPERIENCE

Cornell Autonomous Systems Lab, Cornell University, Ithaca, NY, *Researcher*   **Jan. 2019 - Present**
- Researching on Robotic Control with Machine Learning, in TensorFlow, Python, and ROS

Human Robot Collaboration & Companion Lab, Cornell University, Ithaca, NY, *Researcher*   **May 2018 - Present**
- 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

Ansys Simulation Analysis, Cornell University, Ithaca, NY, *Undergraduate Researcher*   **Jan. - May 2016**
- As an individual project (MAE 4900), worked on analyzing various 3D models of mechanical parts using Ansys Simulation under supervision of Dr. Rajesh Bhaskaran
- Collaborated with Cornell Formula SAE team in analyzing topology and stress distribution of models
- Set up restraints and exterior/interior forces on the 3D model and analyzed the stress, strain, and factors of safety

Drexel Autonomous Systems Lab, Drexel University, Philadelphia, PA, *Intern*   **May - Aug. 2014**
- Worked in 60+ person team mainly consisted of PhD or Post Doctorate researchers working on a humanoid which was participating in DARPA Robotics Challenge
- Coordinated meetings and communication with collaborating lab in South Korea (KAIST)
- Studied and observed how a big-sized lab distributes the work, communicates during the process and finally combine individual efforts into a single result
- Participated in developing and studying force sensors

ADDITIONAL EXPERIENCE

ROK Special Warfare Unit in UAE (AKH Unit), 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

SPECIALIZED SKILLS

Programming Languages: ROS, MATLAB, Java, Python(pandas, pytorch, keras)
Programs: INVENTOR, SolidWorks, ANSYS, AutoCAD
Languages: Korean(fluent); English(fluent); Spanish(intermediate); Arabic(basic)