

Tae Hyeong Kim

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Education

- 2022 – Present M.S. in Electrical & Computer Engineering at the University of Arizona USA
- Supervisor: Dr. Travis William Sawyer
- 2016 – 2020 B.S. in Mechanical Engineering at the Myongji University South Korea
- Program accredited by the Accreditation Board for Engineering Education of Korea

Teaching Experience

- 2019 Undergraduate Teaching Assistant – Myongji University
- Mechanical Engineering Laboratory I
- Delivered lectures on Welding Engineering and the structures of Microspot Resistance welding devices
 - Conducted a welding engineering experiment to determine the pressure time and current required to optimize welds using microspot welding devices
- Mechanical Element Design, Machine Design
- Assisted professors with class management, such as the managing student assignments, taking attendance, producing answer keys for tests
- 2017 –2018 Tutor – Uptgether
- Tutored students in Calculus for 188 hours, raising one student’s grade from a 40 to 70+, helping him matriculate into the prestigious Kookmin University

Research Experience

- 2019 Two stage Detachable Automatic Trunk – Myongji University
- Designed an automobile trunk latch controllable by smartphone
 - Measured device safety by applying pressure to the device and observing deformation and strain
 - Developed the device’s motor’s motion and end-stop switch control algorithms on an Arduino platform
 - Integrated an HC-06 Bluetooth communication module in the device and designed a smartphone app using App Inventor to control the device

Professional Experience

- 2020 – 2022 Army Artillery Officer South Korea
- The Command, Control, Communication, Computer and Intelligent system(C4I system) using Army Tactical Command Information System(ATCIS) is integrated organically to automate the combat procedures. Through this, the concept of network-centric warfare is implemented by accurately recognizing battlefield situations and sharing information with relevant units and personnel in real time
 - Cooperated with affiliated units to conduct operations, exchange intelligence, and engage in other activities
 - Operated the command and control center of the 7th Artillery Brigade by training and real-world operations, managing subordinate battalions, and formulating operational plans
- 2018 –2020 Reserve Officer Training Corps South Korea
- Took military studies classes and 12 weeks of military training, passed the comprehensive commissioning evaluation, and was commissioned as an officer upon graduation

Extracurricular Activities

2016 – 2019

Mechanical Engineering Group Study – Myongji University

- A group promoting mutual cooperation between members in studying mechanical engineering
- Problem solving through discussion on mechanical engineering classes

Awards

2020, 2022

Brigadier General's Individual Commendation – 7th Artillery Brigade

South Korea

- Honored for developing soldiers' capabilities and ensuring mastery of basic skills and principles through strong commitment to the mission and active and systematic operations

2022

Major General's Army Commitment Award – Capital Mechanized Infantry Division

South Korea

- Honored for faithfully performing the duties assigned to his country in a manner of dedication and service, protecting the state and the people, and fulfilling the heavy responsibilities of national defense