Yongseok Kwon

1839 Shirley Ln., Ann Arbor, MI 48105
(+1) 734-882-9135 · kwonys@umich.edu · https://kwonyos.github.io

Education

University of Michigan, Ann Arbor, MI
M.S.E in Mechanical Engineering — Aug. 2020 – Present

Ulsan National Institute of Science and Technology (UNIST), Ulsan, Republic of Korea
B.S. in Mechanical and Aerospace Engineering, Human Factors Engineering — Mar. 2016 – Feb. 2020
- Honors: *Summa Cum Laude*
- Thesis: *Decoupling Mechanism for Tendon-Driven Robot Leg*

University of California, Irvine, CA
Exchange Student in Mechanical and Aerospace Engineering — Jun. 2018 – Aug. 2018

Research Experience

Bio-Robotics and Control (BiRC) Lab, UNIST — Mar. 2019 – Jul. 2019
Research Intern — Advisor: Prof.Joonbum Bae
- Assisted cooperative robot in tendon-driven system project
- Dealt with components of hydraulic robot; manipulated electric circuit, assembled parts, and examined encoder

Teaching Experience

Teaching Assistant on Cognitive Science, UNIST — Spring 2018, Fall 2018
- Graded quizzes, helped write exams, and contributed to curriculum design

Honors & Awards

National Science and Engineering Scholarship, Korea Student Aid Foundation (KOSAF) — 2018 – 2019
- *Full-tuition scholarship for the last two years of undergraduate studies*

Overseas Studies Scholarship, UNIST — 2018
- *Received $4,200 as a financial support for a summer session at UC Irvine*

Academic Performance Scholarship, UNIST — 2016 – 2017
- *Full-tution scholarship for the first two years of undergraduate studies*

Skills

Programming	MATLAB & Simulink, Python, C++, LabView, JavaScript
Software	CATIA, SolidWorks, ANSYS, 3DSSPP
Others	HTML, CSS, LaTeX

Technical Courses

ME related Linear System Theory, Intermediate Dynamics, Solid Mechanics, Thermodynamics, Fluid Mechanics, Dynamics, Mechanical Drawing & Lab, Heat Transfer, Dynamic Systems & Control, Manufacturing Processes & Lab, Intro. to Electric-Electronic Engineering, Vibration, Intro. to Robotics, Numerical Analysis, Mechanical Engineering Lab , Machine Element Design, UAV Flight Control & Simulation, Intro. to Finite Element Method, Intro. to MEMS

Ergonomics related Science of Human Behavior, Cognitive Science, Color Science & Engineering, Physical Ergonomics, Brain & Human Behavior - Common to Humans, Sensation & Perception, Decision making & the Brain, Safety Engineering

Math and CS related Machine Learning, Math for Robotics, Calculus, Differential Equations, Applied Linear Algebra, Engineering Programming, Intro. to AI Programming

References

Dr. Joonbum Bae
Associate Professor of Mechanical and Aerospace Engineering, UNIST
Email jbbae@unist.ac.kr
Tel (+82) 52-217-2335

Dr. Hyondong Oh
Associate Professor of Mechanical and Aerospace Engineering, UNIST
Email h.oh@unist.ac.kr
Tel (+82) 52-217-3048

Dr. James Bobrow
Emeritus Professor of Mechanical and Aerospace Engineering, UC Irvine
Email jebobrow@uci.edu