Yongseok Kwon

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

Technical Courses

ME related Solid Mechanics I·II, 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 I, 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 I - Common to Humans, Sensation & Perception, Decision making & the Brain, Safety Engineering

Math and CS related Calculus I·II, Differential Equations, Applied Linear Algebra, Engineering Programming I, Intro. to AI Programming II

References

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Dr. James Bobrow
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