

Anson Kwan

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8341 Halford Street
San Gabriel CA, 91775

Education

Robotics Engineering BS, Arizona State University, Mesa, AZ

August 2018 - Present

Anticipated Graduation: May 2022

- Barrett The Honors College
- Cumulative GPA: 4.00
- Dean's List, 7 semesters

Robotics and Autonomous Systems MS, Arizona State University, Mesa, AZ

August 2022

Anticipated Graduation: May 2023

- Concentration: Systems Engineering

Work Experience

Undergraduate Grader, Arizona State University, Mesa, AZ

August 2021 - Present

Under Dr. Changho Nam

- In charge of grading assignments and providing office hours for the upper division courses, Engineering Design and Mechanics of Solid Materials at Arizona State University

Research Assistant, Human Machine Integration Lab, Mesa, AZ

February 2019 - February 2020

Under Dr. Sangram Redkar and Dr. Thomas Sugar

- Worked to create a motorized pulley system exoskeleton for the lower body to apply an oscillating torque on the hips in phase with a person's gait to assist able-bodieds with walking and squatting
- Designed and built a prototype to locate and assist U.S. Air Force pilots for water rescue and recovery by the U.S. Navy

Research Experience & Projects

The Efficiency of Spine Stiffness in regards to Anguilliform Locomotion

August 2021 - Present

Under Dr. Daniel Aukes

- Studying how stiffness affects the efficiency of a passively actuated spine system that mimics anguilliform locomotion
- Designing, simulating, and testing spines with varying tapers along the width of a 3D printed beam to achieve a stiffness gradient to understand how these parameters affect the speed and thrust of the system

Upskilling the Manufacturing Workforce to Excel in Industry 4.0

August 2021 - Present

Sponsored by Siemens and Arizona State University

- Designed, manufactured, and integrated industrial motors and sensors into a training system meant for teaching entry level engineers and technicians about manufacturing technologies used in industry
- Started an educational relationship between ASU and Keyence USA in order to train individuals on Keyence sensing technology and outsourcing integration projects for local businesses

Technical Skills

Programming Languages: MATLAB/Simulink, Python, Java, C/C++

Software: Microsoft Office, Solidworks, Fusion360, Inventor, Cadence, PSpice, Git, LaTeX

Manufacture: Mill, Lathe, 3D Printer, Laser Cutter, Soldering

Community Service

Financial Chair for Regional Business Conference

January 2019 - February 2020

- Organized a conference budget and wrote sponsorship letters in order to host 26 institutions apart of the national organization, Residential Hall Association (RHA), at the Arizona State University Polytechnic Campus

Community Outreach for South Valley Junior High School

August 2019 - December 2019

- Designed a interactive LED display and program for students to learn more about programming through a hands on experience

Awards & Scholarships

ASU IMPACT Award Nominee, 1 of 1000 students

March 2022

Fulton Undergraduate Research Initiative

August 2020, January 2021

- Accepted proposal for \$1,500 stipend and \$400 funding

Outstanding Contribution to the Human Event

April 2019

First Year Student of the Year, 1 of 500 students

April 2019

President's Award New American University Scholar

August 2018

Interests & Organizations

Interests: Origami, music, cooking, traveling, exercise

Organizations: Residential Hall Association (RHA), National Residential Hall Honorary (NRHH)