

HYUNGJUN PARK

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Education

Bachelor of Science in Biomedical Engineering and Mechanical Engineering	Expected in May 2024
Minor in Industrial Design	
Georgia Institute of Technology	Atlanta, GA
GPA 3.52	President's Undergraduate Research Award Fall 2021
	Dean's List Fall 2018–Present
	Honors Program Fall 2018–Present

Technical Skills

MATLAB	Blender	Autodesk Inventor	Soldering
Python	Unity Engine	Autodesk Fusion 360	Simple Machining
Arduino	C# Scripting	3D Printing	Sewing

Work Experience

Fusion 360 & Junior Teaching Assistant, Intro to Biomedical Engineering Design	Aug 2020 – Present
Hold weekly office hours to provide feedback to students and assist with grading of assignments	
Coordinate with Senior Fusion 360 teaching assistant to perform live demonstrations	

Research Experience

Research Assistant, Neural Plasticity Research Lab – Atlanta, GA	Jun 2020 – Present
Facilitate onboarding of new members to team	
Investigation of Virtual Reality and Haptic applications for motor task assessment stroke survivors	
Research Assistant, DART Lab – Atlanta, GA	May 2021 – Jul 2021
Used Unity to develop a lower body rig interfaced with multiple VIVE trackers to simulate forward possible foot locations for people in current virtual reality paradigm	

Projects

MTR-SWARM, stroke motor control device	Jun 2020 – Present
3-D model concept devices to measure motor performance in stroke survivors (currently prototyping)	
Programming and leading a group of four in coding a proof-of-concept for a motor task paradigm using C++ and Python and testing new iterations of concepts as a wearable	
NAPE, ECG-based stress-monitoring device	Aug – Dec 2020
Employed ECG modeling and wavelet transform to calculate heart-rate variability (HRV) in addressing increased risk of cardiovascular disease in African American college-students	

Involvement

Team Lead, Medical Robotics	Aug 2020 – Present
Organize & lead weekly meetings to innovate solutions to a real-world health disparity, scoliosis	
Volunteered as a Student Leader for 2021 Mega Mixer to welcome new students	
Member, Biomedical Engineering Society	Aug 2018 – Present
Design/Manufacturing Team, FIRST Robotics Competition – Team 379 Robocats	Aug 2014 – 2018
2016 World Divisional Champions	2016, 2018 Ohio State Champions
Student Attendee, Georgia Tech Challenge Program	Jul 2018
2016 Truly Living Well Center for Natural Urban Agriculture Volunteer	