Connor Geshan

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Education

Master of Science in Mechanical Engineering December 2023
Concentration in Robotics and Control Systems
GPA: 4.0/ 4.0
Carnegie Mellon University, Pittsburgh, PA
Current Courses: Computer Vision, Bio-inspired Robotics, Humanoid Robotics, Space Robotics, Designing and Deploying AI/ML Systems

Bachelor of Science in Mechanical Engineering May 2022
Concentration in Mechatronics **Minors: Computer Science & Mathematics**
Western New England University, Springfield, MA
Courses: Design Mechatronics System, Electrical Energy Systems, Software Design

Work Experience

Research and Development Intern June 2021 – August 2021
Callaway Golf. Carlsbad, CA
- Utilize Python to enhance usability and efficiency of Graphical User Interfaces (GUI)
- Troubleshooting of color properties for Roland Versa UV LEF-12I printer
- Design putting alignment aid for increasing ones putting accuracy
- Supported patent initiative for putting alignment aid
- Generated data manipulation Excel Sheets using Visual Basic to study the effect golf ball properties have on performance

Engineering Intern October 2020 – April 2021
Callaway Golf, Chicopee, MA
- Set-up a golf ball packing factor to estimate quantity of balls per container within 10% accuracy to decrease manually counting for packers
- Created a test system to track inventory using RFID which eliminated the need for a physical count.

Teacher's Assistant-CMU & WNEU August 2019 – Present
3D Printing Lab Technician-WNEU October 2019 – May 2021

Projects

G.H.O.S.T. Jelly-CMU January 2023 - May 2023
- Biomimetic jellyfish soft robot comprised of an electromagnetic actuation system
- Won Best Overall Project at CMU Mechanical Engineering Design Expo

Unoptimized-CMU January 2023 - May 2023
- OpenGL application which voxelizes stl files, then checks for bottom up stability

PRISM Ranger-CMU September 2022 - December 2022
- Perception Deputy of Surface Mobility Team

WNE Rabbit & Snitch Robot Competition-WNEU August 2018 – December 2019
- Developed one remote-controlled seeker robot and one autonomous avoidance robot
- Won First Place Overall

Skills

Programming: Python, C++ (including OpenGL), Cmake, Git, Arduino, Visual Basic
Engineering Software: SolidWorks, NX, MATLAB, LabVIEW
Additive Manufacturing: 3D Printing, CURA

Activities

NCAA Athlete – Men's Ice Hockey – Western New England 2018-2022