MARK JENNINGS

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Work Experience

Nuclear & Applied Robotics Group

Graduate Researcher | 2019 – 2021

- Developed intuitive controller for novel passively-balanced manipulator
- Refactored codebase for custom robot arm to leverage open-source libraries and increase modularity

Sandia National Labs

R&D Intern | Summer 2019

- Designed and qualified additively-manufactured metal components
- Received 1st place intern presentation

Apptronik Systems

Engineering Intern | Summer 2018

- Derived forward kinematic equations for 10DoF humanoid bipedal robot
- Updated actuator testbed product to achieve higher payloads with lower fabrication costs

ReNeu Robotics Lab

Undergraduate Researcher | 2016 - 2019

- Designed and fabricated components for rehabilitation robots
- 3D-printed and assembled custom hand and finger prosthetics

Skills

Experienced:

- C++
- Robot Operating System (ROS)
- MATLAB
- CAD, mainly SolidWorks
- Additive Manufacturing
- Machining, CNC

Familiar:

- Python
- Simulink, LabVIEW
- HTML, CSS, JavaScript

Education

MS Mechanical Engineering

UT Austin | 2019 – 2021 | 3.96 GPA

- Funded by Department of Energy

BS Mechanical Engineering

UT Austin | 2015 – 2019 | 3.84 GPA

Coursework topics:

- Autonomous Robots
- Manipulator Algorithms
- Classical & Modern Control
- Robot Mechanism Design