MARK JENNINGS

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254.760.5530

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
- Advisor: Dr. Mitch Pryor, 512.423.1685

Sandia National Labs

R&D Intern | Summer 2019

- Designed and qualified additively-manufactured metal components
- Manager: Michelle Pang, 505.288.5101

Apptronik, Inc.

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 robotics
- 3D-printed and assembled custom hand and finger prosthetics

Technical Skills

Proficient:

- SolidWorks
- C, C++
- MATLAB
- Robot Operating System (ROS)
- Additive manufacturing
- Manual machining
- MS Office

Familiar:

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

Education

MS Mechanical Engineering

UT Austin | 2019 – 2021

- Dynamic Systems & Control
- Research: Robotic arms
- Cross-disciplinary robotics program, 3.96 GPA

BS Mechanical Engineering

UT Austin | 2015 – 2019

- Robotics courses, 3.84 GPA