# MARK JENNINGS

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## Work Experience

# Nuclear & Applied Robotics Group

Graduate Researcher | 2019 - 2021

- Developed contact-based controller for novel collaborative 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 additivelymanufactured metal components
- Received 1<sup>st</sup> 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:**

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

#### Familiar:

- Python
- HTML, CSS, JavaScript

### Education

# MS Mechanical Engineering

UT Austin | 2019 - 2021 | 3.96 GPA

- Thesis: Manipulator Control in Collaborative Assembly
- Department of Energy Funded

# BS Mechanical Engineering UT Austin | 2015 - 2019 | 3.84 GPA

# Coursework topics:

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