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| MARK  JENNINGS | [https://makr.org](https://makr.org/)  [markjennings97@gmail.com](mailto:markjennings97@gmail.com)  (254)760-5530 |
| Work Experience | Skills |
| 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 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 | Experienced:   * Mechanical Design (CAD) * C, C++ * Robot Operating System (ROS) * MATLAB * 3D-Printing, Machining, CNC   Familiar:   * Python * Git workflow * HTML, CSS, JavaScript­ |
| Education |
| MS Mechanical Engineering  *UT Austin* | *2019 – 2021* | *3.96 GPA*   * *Thesis*: Manipulator Control in Collaborative Assembly * *Teaching Assistant*: Nuclear Environmental Protection   BS Mechanical Engineering  *UT Austin* | *2015 – 2019* | *3.84 GPA*  Coursework topics:   * Autonomous Robotics * Manipulator Algorithms * Classical & Modern Control * Robot Mechanism Design |