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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 |
| Los Alamos National Laboratory  *Post Master* | *2021 – Present*   * Programmed robotic manipulators to automate nuclear manufacturing processes * Implemented custom end-effector and peripheral sensors in confined glovebox * Helped with technical procedures, readiness documents, and maintenance plans   Nuclear and Applied Robotics Group  *Graduate Research Assistant* | *2019 – 2021*   * Developed contact-based controller for novel collaborative manipulator * Refactored custom robot codebase to leverage open-source libraries and increase modularity   Sandia National Laboratories  *R&D Intern* | *Summer 2019*   * Designed and qualified additively manufactured metal components (DMLS) * Received 1st place intern presentation   Apptronik Systems  *Mechanical Engineer 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 Research Assistant* | *2016 – 2019*   * Fabricated metal components with both manual and CNC machines * 3D-printed custom hand and finger prosthetics | Mechanical:   * Design: CAD, FEA, DFMA * Manual/CNC Machining * Additive Manufacturing   Software:   * C, C++, Python * MATLAB * Robot Operating System (ROS) * ABB RAPID, RobotStudio * Microsoft Office Suite, LaTeX   Certificates:   * DOE Q Security Clearance * ABB Accelerated Programming |
| 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 |