

MARK JENNINGS

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(254)760-5530 | www.makr.org

Education – The University of Texas at Austin

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| MS Mechanical Engineering <i>Dynamic Systems and Control, Nuclear Engineering, 3.95 GPA</i> | 2019 – Present |
| BS Mechanical Engineering <i>Robotics Certificate Program, 3.84 GPA</i> | 2015 – 2019 |

Work Experience

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| Sandia National Labs <i>R&D Intern</i> <ul style="list-style-type: none">Proposed qualification procedure for additively manufactured metal partsDesigned electronics housing and validated through mechanical testingAwarded first out of three teams in summer design challenge | Summer 2019 |
| Apptronik Systems <i>Engineering Intern</i> <ul style="list-style-type: none">Fabricated mechanical parts for lower-body powered exoskeletonDesigned and validated actuator testbed productDeveloped forward kinematics for 10 DoF bipedal robot | Summer 2018 |

Research Experience

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| Nuclear & Applied Robotics Group <i>Graduate Research Assistant</i> <ul style="list-style-type: none">Develop real-time controls for passively-balanced robotic armImplement collaborative manufacturing and confined manipulation tasks | 2019 – Present |
| Rehabilitation and Neuromuscular (ReNeu) Robotics Lab <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">Designed and manufactured parts for rehabilitation robots3D printed and assembled prosthetic hand and prosthetic finger | 2016 – 2019 |

Leadership Experience

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| Capstone Engineering Project <i>Engineering Lead</i> <ul style="list-style-type: none">Collaborated with 3 other seniors to redesign a feedstock hopper for an SLS printerDelivered final prototype with significantly improved powder retention and distribution | Spring 2019 |
| UT Robotics & Automation Society (RAS) <i>Mentor, Officer</i> <ul style="list-style-type: none">Assisted in community outreach events to introduce youth to roboticsMentored 3 teams of 5-6 students in annual robotics competition | 2015 – 2019 |

Technical Skills

| | <i>Proficient</i> | <i>Familiar</i> |
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| Software | SolidWorks, MATLAB, MS Office | PTC Creo, LabVIEW |
| Programming | C++, Robot Operating System (ROS), Linux | Python, HTML, CSS |
| Fabrication | Manual machining, Additive manufacturing | CNC operation, CAM software |

