

MARK JENNINGS

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www.makr.org

Education – The University of Texas at Austin

MS Mechanical Engineering	2019 – Present
Dynamic Systems and Control, 3.95 GPA	
BS Mechanical Engineering	2015 – 2019
Robotics Certificate Program, 3.84 GPA	

Research Experience

Nuclear & Applied Robotics Group	2019 – Present
<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	
Rehabilitation and Neuromuscular (ReNeu) Robotics Lab	2016 – 2019
<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	

Work Experience

Sandia National Labs	Summer 2019
<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	
Apptronik Systems	Summer 2018
<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	

Leadership Experience

Capstone Engineering Project	Spring 2019
<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	
UT Robotics & Automation Society (RAS)	2015 – 2019
<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	

Technical Skills

	<i>Proficient</i>	<i>Familiar</i>
Programming	C++, Robot Operating System (ROS), Linux	Python, MoveIt
Software	SolidWorks, MATLAB, MS Office	PTC Creo, LabVIEW
Algorithms	Manipulator control, Mobile robot localization	LiDAR SLAM, Point set registration
Fabrication	Manual machining, Additive manufacturing	CNC operation