

MARK JENNINGS

markjennings97@gmail.com
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>
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