

# Tristan Schuler

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<b>EDUCATION</b>	George Mason University, Fairfax, VA Bachelor of Science in Mechanical Engineering <i>Minor in Computer Science</i>	Expected May 2019 GPA 3.34
	Northern Virginia Community College, Annandale, VA James Madison University, Harrisonburg, VA	GPA 3.41 GPA 3.42
<b>TECHNICAL SKILLS</b>	Machining: Drill Press, CNC Machine, Band Saw, 3D Printing, Laser Printer Programming: C, C++, Python, JAVA, JavaScript, MatLab, Arduino Applications: AutoCad Inventor, Microsoft Office Suite, CircuitLab Operating Systems: Windows, OSX, Linux	
<b>EXPERIENCE</b>	NASA – Marshall Space Flight Center, Huntsville, AL <i>Intern</i>	Aug 2017—Dec 2017
	<ul style="list-style-type: none"><li>• Develop programs to interface with several GPS receivers including: JAVAD TR-G2, Novatel SpaceQuest, GNSS-SDR</li><li>• Set up tools for data capture and analysis of receiver output in Python by assessing sensitivities to attitude dependency, time, and different trajectories</li></ul>	
	George Mason University, Fairfax, VA <i>National Science Foundation Undergraduate Researcher (NSF REU)</i>	May 2017—Aug 2017
	<ul style="list-style-type: none"><li>• Research was converting 2D vector drawings of furniture into 3D models that could be machined with a CNC machine.</li><li>• Defined JSON structure and board manipulation techniques using Java</li><li>• Created algorithms to update boards with new joints by taking data from the user such as: number of teeth, board thickness, board type</li></ul>	
	Air Force Research Lab — Eglin AFB, FL <i>Intern</i>	
<b>ADDITIONAL EXPERIENCE</b>	<ul style="list-style-type: none"><li>• Researched possibility of using open-source software such as QGround Control and APMPPlanner 2.0 in conjunction with a PixHawk Flight Controller to autonomously navigate rovers</li><li>• Linked a Raspberry Pi with a PixHawk to allow custom navigation commands to be used with MavProxy, a ground control program</li><li>• Programed an algorithm in MatLab to autonomously navigate a rover based on current GPS coordinates and a bearing</li></ul>	June 2016—Aug 2016
	George Mason University, Fairfax, VA <i>Robotics Club Member</i>	
	<ul style="list-style-type: none"><li>• Helped construct an updated version of the university's swarm research robots (FlockBots)</li><li>• Developed a wall-following algorithm for a FlockBot using 5 infrared sensors in conjunction with an Arduino microcontroller</li></ul>	Sep 2015—May 2016
	Long and Foster Realtors Undergraduate Teaching Assistant ASME Robot Design Team Lead High School Drumline Instructor	Feb 2015—Aug 2017 May 2017—Jul 2017 Aug 2017—Mar 2017 Mar 2014—Nov 2014
<b>PROFESSIONAL ORGANIZATIONS</b>	American Society of Mechanical Engineers Society of Professional Hispanic Engineers	