



# Silas Johnson

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<b>Education:</b>	<b>University of New Hampshire – College of Engineering and Physical Sciences</b> GPA: <b>3.97/4.0</b>   Honors Program   B.S, Mechanical Engineering	<b>Aug. 2016 – May 2020, anticipated</b>
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<b>Experience:</b>	<b>Missile Defense Agency, Department of Defense – Huntsville, Alabama</b> <i>General Engineering Intern</i> <ul style="list-style-type: none"> <li>Awarded a 2-year, full scholarship/fellowship through the Department of Defense, results in an internship and follow on employment</li> <li>Used MATLAB to develop simulation for flight trajectories and maneuvering of hypersonic vehicles</li> <li>Ran a study with Systems Tool Kit for satellite constellations using the Design of Experiments Method</li> </ul> <b>Hitchiner Manufacturing – Milford, NH</b> <i>Product Engineering Intern</i> <ul style="list-style-type: none"> <li>Aided lead engineers in new product introduction for investment casting</li> <li>Mold design for new parts to be cast               <ul style="list-style-type: none"> <li>Specifically, gas turbine engine parts, aircraft engines</li> </ul> </li> </ul> <b>IdeaLab - Bedford, NH</b> <i>Engineering Intern</i> <ul style="list-style-type: none"> <li>Aided in design of several devices including a highly specialized vending machine</li> <li>The vending machine redefined automated vending by including:               <ul style="list-style-type: none"> <li>IOS based user interface</li> <li>High security locking compartment with Bluetooth actuated locks</li> </ul> </li> <li>Analyzed devices and systems to help make refinements to those designs</li> </ul> <b>UNH Mechanical Engineering</b> <i>Tutor</i> <ul style="list-style-type: none"> <li>Tutored students in related coursework to help them understand the various concepts</li> </ul> <b>UNH Physics Department</b> <i>Learning Assistant</i> <ul style="list-style-type: none"> <li>Aided student in the studio-based physics class in learning concepts</li> <li>Assisted and answered questions for students</li> </ul>	<b>May 2019 – August 2019</b>  <b>June 2018 – August 2018</b>  <b>June 2017 – August 2017</b>  <b>August 2017 – December 2018</b>  <b>August 2018 – December 2018</b>
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<b>Involvement:</b>	<b>UNH Students for the Exploration and Development of Space</b> <i>Chief Safety Officer, Operations Lead</i> <ul style="list-style-type: none"> <li>In charge of safety for an engineering club and senior project that focuses on building rockets               <ul style="list-style-type: none"> <li>Responsible for safety protocol and procedures for all launches, testing, and engineering related activities</li> </ul> </li> <li>Facilitates engineering integration and systems engineering for the club as the Operations Lead               <ul style="list-style-type: none"> <li>Responsible for assuring team adherence to competition requirements</li> </ul> </li> <li>Other responsibilities include aiding in engineering for the propulsion system, a hybrid HTPB rubber and liquid nitrous oxide rocket engine</li> </ul> <b>Eagle Scout</b> <ul style="list-style-type: none"> <li>Led design and construction of a 27-foot walking bridge to provide access to conservation area</li> <li>Assembled work crews including fellow scouts and volunteers</li> <li>Organized vendors and materials</li> </ul> <b>Danny's Team</b> <i>Volunteer</i> <ul style="list-style-type: none"> <li>Worked on various projects to aid the lives of people with disabilities</li> <li>Have helped build wheelchair ramps and volunteered at fundraisers</li> </ul>	<b>September 2017 – Present</b>           <b>January 2014 - Present</b>           <b>June 2014 - Present</b>
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<b>Skills:</b>	MATLAB   SolidWorks   Systems Tool Kit   Project Management   Public Speaking
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