

# Rishabh A. Shah

rishabas@umich.edu — 978-873-7207

1499 Salem Street

North Andover, MA, 01845-4919

<b>Education</b>	<b>University of Michigan</b> <i>Bachelor of Science, Mechanical Engineering</i>	<b>Ann Arbor, MI</b> <i>April 2020</i>
<b>Project Experience</b>	<b>Michigan Hyperloop</b> <i>Analysis and Testing Director</i> <ul style="list-style-type: none"><li>• Manage analysis and testing for entire team</li><li>• Train new team members in Altair HyperWorks products</li></ul> <b>Brakes Subteam</b> <ul style="list-style-type: none"><li>• Predominantly designed brake rotor for use in pod while aiding with conceptualizing and designing parts for rest of the subsystem</li><li>• Assisted with CAD utilizing Siemens NX and machined components utilizing 3-axis mill</li><li>• Competed in the 2018 SpaceX Hyperloop Pod Competition</li></ul> <b>University of Michigan</b> <i>Design and Manufacturing I</i> <ul style="list-style-type: none"><li>• Engineered and manufactured a Robotic Machine Player to compete in a game at the end of the semester utilizing Solidworks and used a machine shop to manufacture parts in house</li></ul> <b>Solar Energy</b> <ul style="list-style-type: none"><li>• Successfully fabricated and programmed a solar tracking device using an Arduino UNO to maximize power production</li></ul>	<b>Ann Arbor, MI</b> <i>Aug 2018 — present</i>  <i>Sept 2017 — Aug 2018</i>  <b>Ann Arbor, MI</b> <i>Sept 2017 — Dec 2017</i>  <i>Jan 2017 — April 2017</i>
<b>Relevant Experience</b>	<b>Altair Engineering</b> <i>Applications Engineering Intern</i> <ul style="list-style-type: none"><li>• Developed an engine cradle model to perform strength, frequency response, and modal analysis using HyperMesh and OptiStruct</li><li>• Assisted in development of a trade show device which utilized IoT to target a basket in which a ball was shot into</li></ul> <b>Osram-Sylvania</b> <i>Quality Assurance Intern</i> <ul style="list-style-type: none"><li>• Implemented new QA Lab software for the Americas Division Quality Labs, creating a new standard report format and a streamlined work flow</li><li>• Assisted in electrical QA testing of LED Drivers in a lab environment to ensure performance specifications were met</li></ul>	<b>Troy, MI</b> <i>May 2018 — Aug 2018</i>  <b>Wilmington, MA</b> <i>June 2016 — Aug 2016</i>
<b>Leadership</b>	Eagle Scout, Boy Scouts of America, Troop 87, North Andover, MA	<i>Nov 2015</i>
<b>Skills</b>	Hardware: 3D printers, band saws, drill presses, function generators, laser cutters, lathes, mills, oscilloscopes, power supplies, soldering irons, waterjets  Software: Adobe Lightroom, Adobe Photoshop, Bash, C++, Github, HyperWorks, L <sup>A</sup> T <sub>E</sub> X, MS Excel, MS PowerPoint, Matlab, NX, OptiStruct, Python, Solidthinking Inspire, Solidworks	
<b>Certifications</b>	OptiStruct for Linear Static and Frequency Analysis Fundamentals Examination OptiStruct for Topology Optimization Fundamental Examination	