Rishabh A. Shah

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Education	**University of Michigan**	**Ann Arbor, MI**
	Bachelor of Science, Mechanical Engineering	*April 2020*

Project Experience

Michigan Hyperloop — **Ann Arbor, MI**
Analysis and Testing Director — *Aug 2018 — present*
- Manage analysis and testing for entire team
- Train new team members in Altair HyperWorks products

Brakes Subteam — *Sept 2017 — Aug 2018*
- Predominantly designed brake rotor for use in pod while aiding with conceptualizing and designing parts for rest of the subsystem
- Assisted with CAD and CAD renderings utilizing Siemens NX and machined components for pod utilizing 3-axis mill
- Competed in the 2018 SpaceX Hyperloop Pod Competition

University of Michigan — **Ann Arbor, MI**
Design and Manufacturing I — *Sept 2017 — Dec 2017*
- Engineered a Robotic Machine Player (RMP) to compete in a game at the end of the semester Utilizing Solidworks to create CAD models and engineering drawings
- Utilized mills, lathes, and waterjets to manufacture parts in house

Solar Energy — *Jan 2017 — April 2017*
- Fabricated and programmed a solar tracking device using an Arduino UNO
- Demonstrated successful tracking ability resulting in maximum power production

Relevant Experience

Osram-Sylvania — **Wilmington, MA**
Quality Assurance Intern — *June 2016 — Aug 2016*
- Implemented new QA Lab software for the Americas Division Quality Labs, creating a new standard report format and a streamlined work flow
- Assisted in electrical QA testing of LED Drivers in a lab environment to ensure performance specifications were met

Leadership Activities

Boy Scouts of America, Troop 87 — **North Andover, MA**
Eagle Scout — *Nov 2015*
- Organized and executed weekly meetings, ensuring rank progression for all Scouts
- Planned weekend trips while keeping safety paramount, such as backcountry ski outings and winter camping trips

Skills

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, LaTeX, MS Excel, MS PowerPoint, Matlab, NX, Python, Solidworks

Certifications

OptiStruct for Linear Static and Frequency Analysis Fundamentals Examination
OptiStruct for Topology Optimization Fundamental Examination

Hobbies

Backpacking, skiing, photography