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 utilizing Siemens NX and machined components 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 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

Solar Energy — *Jan 2017 — April 2017*

- Successfully fabricated and programmed a solar tracking device using an Arduino UNO to maximize power production

Relevant Experience

Atlair Engineering — **Troy, MI**
Applications Engineering Intern — *May 2018 — Aug 2018*

- Developed an engine cradle model to perform strength, frequency response, and modal analysis using HyperMesh and OptiStruct
- Assisted in development of a trade show device which utilized IoT to target a basket in which a ball was shot into

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

Eagle Scout, Boy Scouts of America, Troop 87, North Andover, MA — *Nov 2015*

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, HyperWorks, LaTeX, MS Excel, MS PowerPoint, Matlab, NX, OptiStruct, Python, Solidthinking Inspire, Solidworks

Certifications

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