Rishabh Shah

1499 Salem St, N Andover, MA, 01845

Email : rishabas@umich.edu
Mobile : +1-978-873-7207

EDUCATION

- **University of Michigan** Ann Arbor, MI
  Bachelor of Science, Mechanical Engineering *May 2020*

EXPERIENCE

- **Michigan Hyperloop** Ann Arbor, MI

  Analysis and Testing Director *Aug 2018 - Present*
  - Manage analysis of each component for the 2019 Michigan Hyperloop Pod to ensure design requirements are met
  - Create and execute necessary tests for design feasibility and validation to confirm analysis is correct
  - Assist in managing more than 50 active students to accomplish team goals

  Brakes Subteam Engineer *Sept 2017 - Aug 2018*
  - Designed brake rotor for use in the 2018 Michigan Hyperloop Pod while aiding with conceptualizing and designing parts for rest of the subsystem
  - Performed CAD utilizing Siemens NX and machined components utilizing 3-axis mill
  - Competed in the 2018 SpaceX Hyperloop Competition

- **Altair Engineering** Troy, MI

  Applications Engineering Intern *May 2018 - Aug 2018*
  - Developed an engine cradle model using HyperMesh and OptiStruct to perform strength, frequency response, and modal analysis
  - Built of a trade show device which utilized IoT to target a basket into which a ball was shot with 80% accuracy

- **University of Michigan** Ann Arbor, MI

  Design and Manufacturing II *Sept 2018 - present*
  - Designed and manufactured a four-bar linkage to sort balls by color accurately and quickly to compete with other classmates
  - Simulated the four-bar linkage using MSC Adams to optimize mechanism weight and accuracy

  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

- **Osram-Sylvania** Wilmington, MA
  Quality Assurance Engineering 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, Github, HyperWorks, LaTeX, MSC Adams, MS Excel, MS PowerPoint, Matlab, NX, OptiStruct, Python, Solidthinking Inspire, Solidworks

HOBBIES

- Backpacking, climbing, photography, skiing