# Meet Bhatt

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## EDUCATION

**Master of Science in Mechanical Engineering : University of Texas**  — May 2021

**Bachelor of Engineering in Mechanical Engineering : Gujarat Technological University** — March 2019

## PROFESSIONAL EXPERIENCE

**Summer Trainee, KHS Machinery Pvt. Ltd.** — April 2019
- Designed 3 parts for injection mold in CREO.
- Implemented use of CATIA for manufacturing injection mold in CNC milling.
- Used LASER Engraving machine for giving the serial number to the part.

**Manufacturing Intern, Nirav Industries** — Aug 2018
- Used the CAM software to create detailed instructions that drive CNC machines.
- Rectified machining codes and used pre-staging to decrease the production time by 11%.

**Design Intern, Pressure Jet Systems Pvt. Ltd.** — Dec 2017
- Designed and drafted a globe valve in SolidWorks.
- Gave Geometric Dimensioning and Tolerancing (GD&T) in the drawing for the same.
- Developed and verified the numerical solution to a laminar pipe flow problem in ANSYS Fluent.

## RELEVANT PROJECTS

**University of Texas : Thermal Enhancement Investigation.** — March 2020
- Used various techniques thermal enhancement on flip chip plastic BGA packages.
- CFD tool : ANSYS IcePak was used for the same.

**University of Texas : Stress and Strain Analysis using ANSYS** — Feb. 2020
- Built a non-linear finite-element model to analyze a rocket flange
- Modeled thermal strains and verified the above model by refining the mesh.
- Conducted stress analysis on bicycle Crank in ANSYS Mechanical.
- Analyzed the dependence of the total deformation and normal stress distribution on mesh size for above model.

**University of Texas : Research on Additively Manufactured  injection mold.** — Nov 2019
- Designed and did the draft analysis on mold meant for 3D Printing using SolidWorks.
- Used SLA printer to print the part. Bit warping was observed.

**Gujarat Technological University : Vibrational Analysis on machine** — Feb 2019
- Proposed the model of Automatic Bar Feeding Mechanism in Hacksaw machine.
- Did the vibrational performance analysis on automatic bar feeding machine for Hacksaw.
- Published the findings in paper.

## SKILLS AND COMPETENCIES

**Software (Proficient) :**   SolidWorks (certified), Autodesk Fusion, FESTO fluidsim, Microsoft Office.
**Software (Basic) :**   ANSYS, AutoCAD (2D), Altair Inspire, Catia, Creo, Sketchup, MATLAB.
**Soft Skills :**   Adaptability, Leadership, Diligence, Inquisitive, Self-Motivated.

## LEADERSHIP EXPERIENCE

**Crew Leader at University of Texas at Arlington** — Jan 2020
- Responsible for managing the team for setting up rooms for optimum utilization of space.
- Assist clients with issues during events.

**Campus Ambassador** — Feb 2018
- Represented my college at Indian Institute of Management, Ahmedabad
- Advertising and marketing of the various events

**Hospitality Head at Gandhinagar Institute of Technology** — March 2016 - Aug 2018
- Responsible for receiving and interacting with celebrities, VIP's, and Journalists
- Managing the team of 70 people to ensure the success of event.

## INVOLVEMENTS

**Member of American Society of Mechanical Engineers (ASME)**
**Member of Society of Automotive Engineers (SAE)**