Meet Bhatt

meet.bhatt@mavs.uta.edu | +1-682-407-8088 | linkedin.com/in/meet-bhatt

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.

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.
- Optimized Power and Speed in 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.

Education

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

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

Relevant Projects

University of Texas : Thermal Enhancement Investigation. March 2020
- Used various techniques for thermal enhancement of 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 High-Temp material by FormLabs to print the part in SLA printer. Bit warping was observed.

Gujarat Technological University : Vibrational Analysis on machine Feb 2019
- Leaded my team to propose the model of Automatic Bar Feeding Mechanism in Hacksaw machine.
- Did the vibrational performance analysis on automatic bar feeding machine for Hacksaw.

Publications

- **A Study on Design and Vibration Analysis of Automatic Bar Feeding Mechanism for Hacksaw Machine** May 2019
  - The Main objective of this project was to reduce a time and man workload and increase productivity.
  - Vibration analysis of base structure design was found safe under various stress and strain and in buckling loads.
- **A Review on Pulse Detonation Engine** July 2017
  - The advantage of using PDE over other engines is its drastic decrease in engine cost and increase in efficiency.
  - Pulse Detonation Engines are a promising alternative to conventional gas turbine engines, pulse jet engines etc.

Leadership Experience

- **Crew Leader at University of Texas** Jan 2020
- **Campus Ambassador at Indian Institute of Technology** Feb 2018
- **Hospitality Head at Gandhinagar Institute of Technology** March 2016 - Aug 2018