

Meet Bhatt

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Summary

Meticulous Mechanical Engineer with expertise in design and manufacturing. Looking for internship opportunities.

Skills and Competencies

Software Skills : SolidWorks (certified), AutoCAD (2D), Autodesk Fusion, ANSYS, Altair Inspire, CATIA V5, CREO, MATLAB, Grafana Data Analysis Software, Access, Word, PowerPoint, Excel.

Technical Skills : CAD Modelling, GD&T, FEA (FEM), CFD, Manufacturing Processes, 3D Printing, Automobile Engineering, CNC Programming, Product Development.

Soft Skills : Adaptability, Leadership, Management, Analytical skills, Communication skills, Inquisitive, Self-Motivated.

Professional Experience

- Summer Trainee, KHS Machinery Pvt. Ltd.** April 2019
- Coordinated with engineers of Germany plant to design and develop 3 parts for injection mold using CREO.
 - Implemented use of CATIA for making injection mold in G350- horizontal CNC milling machine.
 - 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 for fabricating parts.
 - 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 the globe valve assembly of 12 parts in SolidWorks.
 - Gave Geometric Dimensioning and Tolerancing (GD&T) to 5 parts in the drawing for the same.
 - Also, 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
- Investigated 6 different techniques for better thermal cooling of flip chip plastic BGA packages.
 - Worked on 4 iterations of Heat-Pipe Modeling using nested Non-Conformal Meshing for distributed cooling.
 - Applied computational techniques using ANSYS IcePak to solve thermal problems in microelectronics systems.
- Cornell University (edx) : Stress and Strain Analysis using ANSYS** Feb 2020
- Built a non-linear finite-element model to analyze a sub-assembly of a rocket flange.
 - Modeled thermal strains and verified the above model by refining the mesh in 3 different ways.
 - 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.** Aug 2018
- Designed a topologically optimized injection mold meant for 3D Printing and performed the draft analysis.
 - Used 'High-Temp'- a material by FormLabs, to print the part in SLA printer. Bit warping was observed.
- Gujarat Technological University : Vibrational Analysis on machine** Dec 2017
- Led my team to propose, design and develop the model of Automatic Bar Feeding Mechanism in Hacksaw machine.
 - Did the vibrational performance analysis on automatic bar feeding machine for Hacksaw to check viability.

Publications

- A Study on Design and Vibration Analysis of Automatic Bar Feeding Mechanism for Hacksaw Machine.** May 2019
- A Review on Pulse Detonation Engine.** July 2017