Meet Bhatt

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Summary

Detail oriented 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, 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, Diligence, Inquisitive, Self-Motivated.

Professional Experience

Summer Trainee, KHS Machinery Pvt. Ltd. April 2019
- Developed 3 parts for injection mold in CREO and gave clearances for manufacturing feasibility (DFM).
- Implemented use of CATIA for manufacturing 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 manufacturing 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 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
- Investigated various techniques for better thermal cooling of flip chip plastic BGA packages.
- Worked on Heat-Pipe Modeling using nested Non-Conformal Meshing for distributed cooling.
- Applied computational techniques using ANSYS IcePak to solve Thermo/mechanical 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.
- 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
- Leaded 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