Meet Bhatt

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

Skills and Competencies

Software Skills : SolidWorks (certified), AutoCAD (2D), Autodesk Fusion, ANSYS, Altair Inspire, CATIA V5, CREO, MATLAB, Grafana Data Analysis Software, JT2Go, Access, Word, PowerPoint, Excel.

Technical Skills : CAD Modelling, GD&T, FEA (FEM), CFD, Manufacturing Processes, 3D Printing, Automobile Engineering, CNC Programming, Product Development, Root-cause analysis, Product data management (PDM), Product lifecycle management (PLM).

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

Professional Experience

Pilot Hall Assembly Engineering Intern, VOLKSWAGEN Group of America Jan 2021 – Aug 2021

- Commissioned a 70-inch 3D Printer and saved **52%** of the allocated budget
- Implemented an improvement for radiator design to reduce installation force
- Executed a fitment trial and improvised the design of front bumper guide profile
- Integrated CAD assemblies of 6 cooling systems configurations for pre-series car
- Compared and authenticated CAD data with actual parts to check for quality defects and geometry changes
- Investigated supplier chargeback and saved raw material overcharges worth of **$3 Million** caused by weight disparity
- As a cross-functional team member supported Purchasing department for assembly teardowns and measurement studies
- Evaluated torque performance at the marriage line to identify failure consistency while keeping it below **2%**
- Conducted tests on production line to check presence of air in cooling system for series and pre-series cars
- Conceptualized and developed a check gauge for the strut for pre-series electric vehicle
- Designed and built a platform for the chassis skid which holds the Body-in-white (BIW)
- Eliminated the steering column misalignment issue on the pre-series EV
- Diagnosed various projects of chassis and powertrain

Summer Trainee, KHS Machinery Pvt. Ltd. April 2019 – July 2019

- Coordinated with colleagues of Germany plant to design and develop 3 parts for injection mold using CREO
- Optimized Power and Speed in LASER Engraving machine for giving the serial number to the part

Manufacturing Intern, Nirav Industries Aug 2018 – Oct 2018

- Created detailed instructions that drives CNC machine using CAM software
- Rectified machining codes and adopted pre-staging to decrease the production time by 11%

Design Intern, Pressure Jet Systems Pvt. Ltd. Dec 2017 – Feb 2018

- Designed and drafted the globe valve assembly of 12 parts in SolidWorks
- Developed and verified the numerical solution to a laminar pipe flow problem in ANSYS Fluent
- Performed Geometric Dimensioning and Tolerancing (GD&T) to 5 parts in the drawing for the same

Education

Master of Science in Mechanical Engineering : University of Texas Dec 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
- Generated 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
- Experimented 'High-Temp' material by FormLabs, to print the part in SLA printer

Gujarat Technological University : Vibrational Analysis on machine Dec 2017

- Leaded the team to propose, design and develop the model of Automatic Bar Feeding Mechanism in Hacksaw machine
- Computed 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