

Name here

Address and contact details

SUMMARY

A passionate mechanical engineering graduate student with primary concentration in Solid Mechanics and highly interested in product R&D coupled with prior experience in product design, quality, and supply chain. Well versed with CAD and FEA analyses. Passionate about automotive engineering and related functions.

EDUCATION

MS	Purdue	Expected May 2021
	Master of Science in Mechanical Engineering	
	GPA: - 3.6/4.0	
BE	University	Graduated May 2015
	BE in Mechanical Engineering	
	GPA: 56% (3.0/4.0)	

RELATED COURSES

CAD/CAM | Systems Driven Product Development | Optimal Design of Complex Mechanical Systems | Machine Design | Strength of Materials | Theory of Machines | Advanced Finite Element Analysis |

SKILLS & SOFTWARE

PTC Creo Parametric | Pro/Engineer | Computer Aided Design (CAD) | CAE | GD&T | Technical Part Drawings | Component/Product Design | ANSYS Workbench | Structural Analysis | Solidworks | ERP | Failure Modes and Effects Analysis (FMEA) | C, C++ | Microsoft Office | Spreadsheets | Total Cost Analysis | CATIA | MATLAB | LSDYNA | Cameo | Bill of Materials (BOM) | Surfacing | Part | Sheet Metal | Product Lifecycle Management (PLM) |

CERTIFICATIONS

- Creo for Design Engineers (PTC 102 -0687), PTC
- ANSYS (P-47319/T19014106), Indo German Tool Room, Government of India

PROFESSIONAL EXPERIENCE

CAB Machine Tools Pvt. Ltd	May 2018 – July 2018
Project Lead, Design Department	
<ul style="list-style-type: none">• Led a project for returnable packaging that saved the company \$2000.• Designed a returnable steel frame for packaging & delivery using Creo.• Performed total cost analysis.	

ABC Metallics Pvt. Ltd.,	March 2017 – February 2018
Trainee Development Engineer& Jr. Marketing Engineer, Development & PPC Department	
<ul style="list-style-type: none">• Assisted in maintaining quality and root cause analysis of rejection of new product samples for machining development.• Maintain relevant documentation for new products such as PPAP (Production Part Approval Process), Process Failure Mode Effect Analysis (PFMEA) and Statistical Process capability (SPC).• Expertly met production schedules of Cummins, Ashok Leyland, Simpsons, and other customer requirements by delivering required parts on time.• Introduced new changes in labelling of packaging, reducing confusion at the supplier and OEM end.• Initiated returnable packaging & conducted training of the labor force for the same. Maintained inventory of the same.	

XYZ Industries Pvt. Ltd	January 2016 – December 2016
Trainee Quality Engineer, Quality Department	
<ul style="list-style-type: none">• Performed In-coming, In-Process and Final Inspection for gearbox casings.• Implemented 5S for smooth product flow & improved worker productivity by 50%.• Maintained relevant documentation such as dimensional records and quality charts.• Co-ordinated vendor production and rejection of critical parts to meet schedules, timelines and quality.	

PROJECT EXPERIENCE

Automatic Tire Inflation System

August 2015 – March 2015

- Lead a team of 5 members which designed a prototype for heavy trucks which enabled automatically inflating tires and maintaining the tire pressure in between 35-40 PSI, while the vehicle is in motion for ensuring longer life of tires, improving fuel economy and prevent tire explosions.
- Jointly designed, assembled, and tested the rotary joint for successful working of the same.
- Performed troubleshooting to demonstrate easy repairability of the system.
- Ensured co-ordination between team members by delegation and improving team communication.
- Secured a sponsorship for a critical pressure sensor from IFM Electronics Pvt. Ltd. which saved the team, \$300.

Design and Analysis of Truck Flywheel

September 2019 – December 2019

- Designed a Flywheel along with ring gear and bushing and assembled it in PTC Creo.
- Performed stress, deformation, fatigue and modal analyses in Ansys Workbench.
- Simulated effect of different materials for the flywheel in terms of stress, deformation and fatigue.

Design and Analysis of Racing Brake

September 2019 – December 2019

- Designed a racing brake and bushing and assembled it in PTC Creo.
- Performed stress, deformation, and modal analyses in ANSYS Workbench.

Optimization of Brake Disc Geometry for Improved Braking Performance

February 2020 – May 2020

- Currently working on optimization of brake rotor dimensions for improved braking performance.
- Achieved dimensions reduction by 10% for improved braking performance by reducing stress, temperature and increasing maximum frequency.

Analysis of Jet Engine Turbine

February 2020 – May 2020

- Performed Modal, Random Vibrations Analyses
- Performed CFD Analysis to visualize flow on the jet engine turbine.