

CAREER OBJECTIVE

To seek a job in a professional work driven environment that gives me an opportunity for self-improvement, while contributing to the symbolic growth of the organization with my technical, innovative and logical skills.

WORK EXPERIENCE

- Jr. Design Engineer**
Wintech Taparia Limited, Indore (July'19 – Present)
 - Understood functionalities of machines and **Sheetmetal** operations on shop floor in order to achieve **optimized designs** to reduce **ECNs**.
 - Conceptualized** initial designs in compliance with the specific client requirements.
 - Created and validated **3D** designs of New Equipments in **Solidworks** considering **Design for Assembly (DFA)**, **Design for Manufacturing (DFM)** and **Design for Safety (DFS)**.
 - Modified existing equipments for Ease of Production and **Cost Effectiveness**.
 - Prepared functional dimensioning requirements for detailed **2D** designs and **manufacturing drawings**.
 - Prepared **GA Drawings** in **AutoCAD** and drawings for **waterjet** cutting of flatten parts.
 - Generated **BOMs** in **MS Excel** for comprehensive inventory of raw materials, sub-assemblies and assemblies to manufacture a product.

INDUSTRIAL PROJECTS

- Nano-Frying Conveyance Line**
 - Conceptualization** of the equipments required in the process line from the supply of raw materials to flavoring and packaging system.
 - Equipments** – Hopper, Inclined Elevators, Conveyors, Screw Elevators, Slice washing System, Filters, and Tumbling Drum.
 - Created dummy model for generating food processing **line layout** in 3D.
 - Created and validated **3D designs** and **2D drawings** for sheetmetal and machining parts.
 - Structural and load analysis** for the equipment's structures in **Solidworks Simulation**.
 - Generation of **BOMs**, **GA** drawings in AutoCAD and drawings for water jet cutting.

TECHNICAL SKILLS

SOLIDWORKS, CATIA V5, AutoCAD, Ansys, GD&T, Stackup Analysis, Advanced MS Excel, MS Office.

EDUCATION

Degree	Institution/School	Year	Percentage/CGPA
B.E.-Mechanical Engineering	Medi-Caps Institute of Technology and Management, Indore	2019	7.57
12 th , CBSE	Gyan Sagar Academy, Ujjain	2015	86.2%
10 th , CBSE	Gyan Sagar Academy, Ujjain	2013	8.2

EXPERIMENTAL LEARNING

- Diploma in Product Design** - CADD Centre, Indore (Dec'17 – April'18)
 - Hands on learning on **CATIA V5** and **GD&T** for designing of efficient components and products.
 - Awarded **CCUBE** Competency certification **Grade-A** in CATIA, CADD Centre.
 - Analyzed the design in **ANSYS** for evaluation of the efficiency of the product by performing **Finite Element Analysis (FEA)**.
 - Performed and learned **Static Structural**, **Linear Buckling**, **Modal**, and **Steady State Thermal Analysis**.
- Understanding Piping & Instrumentation Design (P&ID)** – Udemy (April'20)
 - Basic Blueprint Reading to understand the process layout.
 - Piping & Equipment Representation, Instrument Loops and Representation of various components like **pumps** and **valves**.
 - Basic and Advanced Process Control Systems (**BPCS**) and Safety Instrumented Systems (**SIS**).

ACADEMIC PROJECTS

- A Case Study on Improvement in Productivity at PerfectKing W.P.C. Industry (MAJOR Project) :** (Feb'19 - April'19)
 - Live Project** to improve the productivity by mapping the enhanced plant layout in AutoCAD and cultivate the loopholes in Circular looms and Lamination Plant.
 - Analyzed the **maintenance** system involved in the production plant.
 - Proposed a new plant layout and an **optimal** maintenance **strategy** for better productivity.
- Inbuilt Hydraulic Vehicle Lifting Mechanism (MINOR Project) :** (Sept'18 – Nov'18)
 - Design and Analysis of Lifter using **Scissor mechanism** and a **double acting hydraulic cylinder**.
 - Movement of the two lifters using the rack and pinion mechanism over the rails mounted on chassis.
- Go-Kart :** (March'18 – Sept'18)
 - Lead the team as **Chief Designer** and **Head of Steering department** of the collegiate official Go-Karting team.
 - Participated in Ultimate Karting Championship 2018, National Go-Kart Racing Championship 2018.

CO-CURRICULAR ACTIVITIES

- Winner in **District level Skating** Competition, 2013.
- Industrial and Perspective Sketching for **Product Designing**, and Singing.