



## ABHISHEK SINGH – Team Leader

**MACHINE DESIGN & DEVELOPMENT | PROJECT MANAGEMENT |  
TEAM LEAD | REVERSE ENGG. | VALUE ENGG.**

Industry Preference: SPM Manufacturing and Design consultancy

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### Profile Summary

- 🔧 **B.Tech.Eve. (Mechanical Engineering)** from DTU New Delhi (formally known as Delhi College Of Engineering) offering 10+ years of rich cross-functional experience in all aspects of Machine Design and Development for international and regional packaging machine projects mainly consisting FFS, CTFFS, Flow Wrap, Auger filler.
- 🔧 Track record of controlling machine design phase of new technology based projects including in-house engineering, functions and liaising with engineers, throughout design and commissioning phases.
- 🔧 Experience in providing production engineering design and related services that support company's design-build goals as per local & industry standards.
- 🔧 Effectively worked on design activities using full range of engineering software like Solid works, Solid Edge and Auto cad.
- 🔧 Proven success in identifying the opportunity areas to save cost and run operations in efficient & effective manner, thereby helping the process in reducing operational cost and enhancing productivity.
- 🔧 Consistent record of delivering results in revenue, performance and profitability by completing assigned tasks within the deadlines
- 🔧 Excellent relationship management, negotiation, organization & team building, and strategic decision making skills.



### Core Competencies

Machine Design & Development

Design Conceptualisation

Reverse Engineering

Value Engineering

Resource Management

Site Administration

Liaison & Coordination

Strategic Planning & Implementation

People Leadership



### Academic Details

- 🔧 **B. Tech. Eve. (Mechanical Engineering)** from DTU New Delhi, in 2015
- 🔧 **3 year dip. (Mechanical Engineering)** from Ghaziabad Polytechnic Ghaziabad, in 2008



### Notable Accomplishments Across the Career

- 🔧 Gained exposure of VTCFFS, CT-150, Ultra Slim, Flow Wrap, and Auger.
- 🔧 Cost Saving of CT-90 M/c by 12000/- by using pipe frame instead of conventional machined Plates frame.
- 🔧 Cost reduction up to 60000/- by standardizing the CTFFS-Universal machine instead of variety of machine
- 🔧 Designed differential gear box
- 🔧 Design calculations for different types of products as per customer needs.
- 🔧 Developing mechanical design considering all the mechanical and process constraints such as weight to strength ratio, mounting locations, available space and manufacturing feasibility etc.
- 🔧 Designing, costing and Estimation of plants, equipments and services



### Technical Skills

- 🔧 MS Office and Internet Applications
- 🔧 Solid Works, Solid Edge, Auto cad , Motion Analysis, PolyWorks, NX
- 🔧 Implementation of Master Plan to direct machine design and manufacturing.
- 🔧 Handling of PCMM (Faro Arm) to performing inspection, cad comparison, dimensional analysis, reverse engineering.



### Skill Set



**SOLID EDGE**



**SOLIDWORKS**



**PolyWorks®**  
The Universal 3D Metrology  
Software Platform™



**FARO**



## Career Timeline



## Organizational Experience

**Since Feb'19: Falcon Autotech Pvt. Ltd. Noida City as Team Leader (Design & Development)**

### Key Result Areas:

- Liaison with mfg. team for implementing Design for manufacturing (DFM) and DFA.
- Design calculations for different types of products as per customer needs.
- Developing mechanical design considering all the mechanical and process constraints such as weight to strength ratio, mounting locations, available space and manufacturing feasibility, etc.
- Preparing general arrangement layout as per customer requirements, inquiries, and work out optimized solutions.
- Designing, costing and Estimation of plants, equipments and services.
- Prepare drawings, related change notices, purchase requisitions etc.
- Supervise the Shop floor people while assembling the prototype & conduct trials, analyze the performance and make the necessary changes to improve the performance of the product.
- Co-ordinate with the Service Engineers at various sites during the erection & the installation of the newly developed products and take all responsibility to check status regularly and attend site problems.
- Visit the plant of the customer for conducting field trials.
- Visit to QC department to discuss the critical dimensions available in the drawings.
- Follow up with purchase department for purchase and stores department for raising indent for procurement with correct technical specification.
- Safe storage and up keep of all old project, technical documents through design office staff.
- Maintain of all registers and documents as per the ISO manual.
- Solid modeling and detail drawings of the mechanical parts using auto cad or other software e.g. solid works, solid edge Software.
- Identifying the areas of bottlenecks & breakdown; taking steps to achieve zero customer complaints through the application of troubleshooting tools like RCA.
- Leading, mentoring & monitoring the performance of team members
- Cultivating relationships of mutual cooperation and respect for organizational benefit with various stakeholders.
- Handling of PCMM (Faro Arm) by using Polyworks.
- Processing 3D scan data with measurement/metrology software (Polyworks).
- Generating the inspection report and performing cad comparison, dimensional analysis, reverse engineering.

**Since Feb'19 :Falcon Autotech Pvt Ltd.,Noida City as (Team Leader) – Design & Development**

**April'14 – Jan'19: Uflex Ltd, Noida City as Design Engineer – Design & Development**

**May'10 – April'14: Uflex Ltd, Noida City as Junior Engineer – Design & Development**

**May'09 – April'10: Uflex Ltd., Noida City as Junior Engineer – R & D**

**May'08 – April'09: Uflex Ltd., Noida City as Junior Engineer Trainee, R & D**



## Personal Details

**Date of Birth:** 22/04/1985

**Languages Known:** English, Hindi

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