

Sudarshan Wagh

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Objective

Dedicated Mold Designer with 3 years of experience in precision tooling design and modification using Siemens NX, Creo, and CATIA. Skilled in tool design, ECN/DCN handling, NPI project leadership, FAI & CPK corrections, electrode design, and DFM preparation. Seeking to apply technical expertise and global collaboration experience to deliver innovative and efficient tooling solutions while advancing my professional growth.

Experience

- Creative Components Pvt. Ltd.** Jan. 2023 - Feb.2024
Jr. Mold designer
 - Key Responsibilities:

Design Expertise: Proficient in using CAD software to create precise 2D and 3D models of injection molds for plastic and metal parts production.

Generating Bill Of Material: Proficient in creating detailed BOMs for injection mold designs, listing all necessary materials, components, and quantities required for the manufacturing process.

Optimization: Experience in optimizing mold designs for efficiency, cost-effectiveness, and manufacturability. Familiarity with various molding techniques and their impact on design considerations.

Problem-Solving: Proven ability to troubleshoot molding issues, identify design-related problems, and propose effective solutions to enhance the manufacturing process.

Collaboration: Worked closely with production engineers, toolmakers, and quality control teams, ensuring molds meet specifications and quality standards. Effective communication and collaboration skills in a team- oriented environment.

Continuous Learning: Stay updated with the latest technologies and materials in injection molding, integrating innovative features into designs for improved efficiency and quality.
 - Achievement:

Quickly learned NX & CATIA software with guidance from senior engineers, gaining hands-on expertise in 2D drawings, tool modifications, and electrode design.

Contributed to creating Design for Manufacturing (DFM) reports and supporting tooling solutions for global customers such as Jaguar, TCS, Volkswagen (VW), and Valeo.
- SIP Mold Pvt. Ltd.** March 2024 - Oct. 2024
Jr.Mold Design Engineer
 - Key Responsibilities:

Design and Development: Create detailed mold designs using NX software. Develop 3D models and 2D drawings for plastic components.

Mechanism Integration: Implement proper mechanisms in the mold design to ensure functionality and durability. Use NX tools to simulate and analyze the mold mechanisms.

Customer Interaction: Communicate effectively with clients like Samsonite, Mahindra & Mahindra, and Varroc to understand their specific requirements. Incorporate feedback from clients to refine and improve designs. Provide technical support and presentations to demonstrate design concepts and solutions.

Quality Assurance: Ensure all designs meet industry standards and client specifications. Perform tests and validations to ensure molds function correctly. Collaboration: Work closely with senior designers, engineers, and production teams to ensure seamless integration from design to manufacturing.
 - Achievements:

Individually designed 10+ molds for reputed customers including IAC, Mahindra, and Motherson, Samsonite, ensuring precision, quality, and timely delivery to meet customer requirements.

- **JABIL India, Pune**
Tooling CAD Engineer
 - Key Responsibilities:

Design and modify tooling using Creo & NX software.

Manage ECN/DCN processes for tool updates and modifications.

Lead NPI projects independently from concept to delivery.

Perform FAI & CPK corrections and precise measurements.

Ensure high-precision tooling with 5–10 micron tolerances.

Read and analyze MTD for Sample dimensions.

Collaborate with Chinese, Malaysian, Israeli, and Indian teams for process optimization.

Utilize Windchill database, MPMS systems, and JABIL AI-driven tools for workflow management.

- Achievements:

Successfully handled 3 major projects covering 130+ tools.

Recognized as the first and only designer in the past year to manage complete tooling activities at JABIL, Pune.

Improved workflow efficiency by implementing AI-generated systems.

Maintained high accuracy in tooling design, achieving consistent 5–10 micron precision.

Education

- **Central Institute of Petrochemical Engineering and Technology** 2021-2023
Diploma
79.40 %
- **Kishanlal Tapadiya Memorial School** 2020-2021
HSC
80.40

Skills

- - CAD Tools: NX CAD, NX CAM, Creo 11.0.2, CATIA V5 R20
 - Mold Design: Injection molds, electrode design, DFM, GD&T, cost optimization
 - Others: Microsoft Office, Conventional & CNC Machine

Projects

- **Injection mould of Smiley Kitchen**
I have created a 4 cavity automatic injection mould of smiley kitchen as 5th sem project at CIPET : CSTS
- **Lear Webbing guide plastic cap mold design**
Client :- Lear (Offsite)
Apr 2024 to Apr 2024 (Full Time)
Self designed mold design of Webbing guide plastic cap with slider and lifters.
- **Samsonite Shell Top mold designed**
Client :- Samsonite India (Nasik : Offsite)
Apr 2024 to Apr 2024 (Full Time)
I have designed own mold design of Samsonite bag top side shell within a 4 to 5 days , my first complete individual designed mold.

Languages

- Marathi
- Hindi
- English
- Sanskrit

Additional Information

Internship:

Creative Components Pvt. Ltd. (Pune)

as a junior mold designer

Duration 6 months (Jan. 2023 to Jun 2023)

Publications

- **Declaration**

I hereby declare that the particulars given above are true to the best of my knowledge and belief. If anything found fake or wrong I will be responsible for that.