

RAKESH DINESH PATEL

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PROFESSIONAL SUMMARY

Experienced mechanical engineer skilled in design, process engineering, and project management. Committed to delivering innovative solutions and driving operational excellence

EXPERIENCE

MECHANICAL DESIGN ENGINEER

[APRIL2021-MAY2022]

COMPANY NAME – SINGHANIA TABLETING GROUP (IMPERIAL PHARMACHINE PVT LTD)

- Oversaw mechanical design phases from concept through production.
- Conducted inspections of tooling and tablets after manufacturing, considering design and technical perspectives.
- Conducted research on various software platforms such as TAP-CAD and RAPID-I to support design work.
- Improved the design of the Auto Punch Polisher by making it more compact and reducing its footprint.
- Demonstrated strong problem-solving skills in troubleshooting and resolving tooling issues during manufacturing.
- Conducted feasibility studies and provided recommendations on the implementation of new technologies and manufacturing processes.
- Assisted in the development of test plans and conducted performance testing and validation of mechanical designs.
- Utilized 3D modelling software (e.g., SolidWorks, AutoCAD) to create detailed designs and engineering drawings.

PROCESS ENGINEER

[MAY2022-PRESENT]

Company Name – Lotus Technicals Pvt Ltd

- Pharmaceutical manufacturing equipment management including OSD facilities and sterile manufacturing facilities.
- Applied engineering formulas and skills to perform accurate and efficient calculations for process design.
- Selected appropriate equipment based on project requirements and generated equipment lists and schedules.
- Provided project management and technical support, ensuring adherence to project requirements and specifications.
- Prepared process design documents, including conceptual designs & detailed specifications.
- Conducted vendor evaluations based on requirements and made techno-commercial recommendations.
- Maintained effective communication with the project management team, providing regular updates on work progress and any changes in project scope.
- Demonstrated adaptability and delivered high-quality work within specified timelines.
- Conducted Factory Acceptance Tests (FAT) on materials, processes, and operational systems to ensure high-quality, functional goods in accordance with specifications.

EDUCATION

Qualification	School/College	University/Board	Year	Stream/Degree	Score
Graduated	SSJCOE Mumbai	Mumbai University	2020	B.E Mechanical Engineering	8/10
HSC	RJ College	Maharashtra StateBoard	2016	Science	61.23
SSC	Hindi High School	Maharashtra StateBoard	2014	-	80.26

ENGINEERING PROJECTS

- Design And Fabrication Of 3D Printer By FDM Method **[March 2019-Oct 2020]**
To design and fabricate of 3D printer by FDM method using rapid prototyping technique. The objective is to work with specialized 3D Printers and to decrease the project development cycle and cost

INDUSTRIAL PROJECTS (INTERNSHIP)

The Bhabha Atomic Research Centre (BARC) Trombay Mumbai.

[June 2019-July2019]

- Practical training focused on designs and manufacturing technology for gas pipelines in the Technical Services Division (TSD).
- Worked on pipeline design, fabrication techniques, quality control, and testing procedures.
- Collaborated with a team of professionals to develop and implement efficient gas pipeline systems.
- Acquired skills in design software, manufacturing processes, and quality assurance techniques.
- BARC's reputation as a leading institution in atomic research and development enhanced the internship experience.
- Personal growth achieved through overcoming challenges and learning valuable lessons.

PAPER PUBLISHED

- International journal of science and research (IJSR) (Publication of "3D Printer By Fused Deposition Modelling Method") **[May 2020]**

HOBBIES

- listening to music • Traveling • Painting and Crafting