

Mansi Dipak Deore

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EDUCATION

VJTI (Veermata Jijabai Technological Institute)
Master of Technology in Mechanical Engineering
(specialization in Machine Design)

Mumbai, Maharashtra
Jul 2024

University of Mumbai
Bachelor of Engineering in Mechanical Engineering

Navi Mumbai, Maharashtra
Jul 2021

WORK EXPERIENCE

Stryker India
Research and Development Intern

Gurugram, Haryana
Aug 2023 - Jun 2024

- Developed and executed CFD simulations for medical devices, resulting in a improvement in product efficiency.
- Implemented Fluid Structure Interaction Analysis techniques using ANSYS tools, leading to a increase in overall project completion efficiency.
- Collaborated with team members from different divisions to integrate ANSYS tools into their workflows, resulting in a reduction in project timelines and a increase in cost savings.

IDP Automation Systems
Design Engineer

Vapi, Gujarat
Aug 2021- Oct 2022

- Developed customized machine designs for various industries, tailoring specifications to meet unique requirements and ensure compliance with industry regulations and standards.
- Utilized AutoCAD software to create detailed drawings of specialized machines, resulting in accurate client quotations and project proposals.

PROJECT EXPERIENCE

ISHRAE, University of Mumbai
Design of Heating, Ventilation and Air Conditionin

Navi Mumbai, Maharashtra
Jun 2020 - Jul 2021

- Sun-Path diagram for two different locations was studied using Sun-Path Andrew Marsh website and in accordance with NZEB guidelines appropriate location was chosen.
- Head Load Calculations were conducted using Microsoft Excel taking into consideration certain parameters such as location, orientation, facade.
- Used Revit to create 3D CADmodel and rendering of building and ducting system layout.

JETIR (Journal)
Study and Analysis of Air Flow Through Duct

Navi Mumbai, Maharashtra
Jul 2020 - Aug 2021

- The research paper focuses on the design and improvement of air ducts using computational fluid dynamics (CFD) analysis to enhance the efficiency of the duct system.
- It explores the optimization of duct shapes, such as rectangular duct with a Y-shaped bend and a 90-degree corner with a sharp bend, to improve supply air flow and minimize capital and running costs.
- The paper utilizes CFD simulation tools to study velocity distribution, pressure differences, and air flow distribution within the duct

ACHIEVEMENTS

National Student Design Competition
ISHRAE

Mumbai, Maharashtra
Jul 2020 - Jul 2021

- Secured 2nd position for designing an air conditioning system for an IT Park.
- Implemented innovative design strategies to optimize energy consumption and achieve high levels of occupant comfort and indoor air quality.
- Developed detailed technical documentation, including system diagrams, specifications, and performance analysis, to support the implementation and maintenance of the Air Conditioning system.