



Ar.VISHAL YADAV

PURSUING M.TECH BUILDING ENERGY PERFORMANCE
CEPT University, Ahmedabad, Gujarat

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EDUCATION

- 88.1% in B.Arch: I Division • 2024
Guru Gobind Singh
Indraprastha University, Delhi
- 3.4/5 GPA: Semester I • 2024
CEPT University,
Ahmedabad, Gujarat
- Ongoing Semester: II • 2025
CEPT University,
Ahmedabad, Gujarat

WORK EXPERIENCE

Laboratory of Inclusive Design
LiD IIT Roorkee (5 month Internship)

Worked on Accessibility Improvement
Drawings for 40 Railway Stations in Mumbai

RESEARCH PAPERS

Seminar Report	Dessertation
Computational	Building
Fluid Dynamics	Performance
in Architecture	Analysis

WORKSHOPS & COURSES

- “Bonds with Bamboo”: SPA Delhi
7 Day Hands on bamboo Workshop
- Building Energy Symposium: CEPT
Conference about Energy-efficient building
design, technology, and research.

SOFTWARE SKILLS

01. AutoCAD	Drafting &
02. REVIT	3D Modelling
03. Sketchup	
01. DesignBuilder	Energy
02. Ladybug	Modelling
01. MS Excel	Data
02. R-Analysis	Analysis
01. MS Powerpoint	Data
02. Adobe Photoshop	Visualisation

TECHNICAL SKILLS

- Thermal Load Estimation
Skilled in calculating cooling loads for different building
configurations using climatic and envelope data.
- Building Energy Simulation & Modelling
Developed detailed building energy models to simulate
thermal behavior, system performance, and comfort metrics.
- Envelope Performance Evaluation & Optimisation
Assessed the impact of construction materials and insulation
strategies on thermal comfort and energy use.
- Solar Analysis & Renewable Integration
Conducted solar exposure studies to assess photovoltaic
potential and improve buildings Energy Performance Index.
- Shading Device Optimisation
Designed and tested facade shading devices using
parametric tools to reduce solar heat gains.
- HVAC System Performance Analysis & Optimisation
Modelled and evaluated the performance of various systems
including DX, VAV, VRF with Designbuilder.
- Data Interpretation & Visualization
Used data analysis and visualization tools to understand and
present simulation results clearly.

COMPETITIONS I REWARDS

Salish Misal Educational Foundation's BRICK GROUP OF INSTITUTES	April, 2021
▪ Pandemic Memorial Design	Secured 17th
Solar Decathlon India	June, 2021
▪ Community Resilience Shelter	Secured 1st
VOLUME ZERO	March, 2022
▪ Multi - Functional School Design	Top 50 Entry
atX ARCHITERRAX	July, 2022
▪ Discarded Railway Coach Redesign	Secured 1st
designadvance	Sep, 2022
▪ Transit Oriented Development	Secured 8th
U.S. DEPARTMENT OF ENERGY Solar Decathlon	April, 2023
▪ Office Building Design Madhya Pradesh Cricket Association	Semi Finalists