



# SAMRIDHI BHARDWAJ

SUSTAINABILITY  
PROFESSIONAL

## CONTACT DETAILS

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## PUBLICATIONS

- **Kerala Flood Manual** | [Link](#)  
Manual for Retrofitting and Flood Resilient Design for Flood Affected Areas in Kerala

## CERTIFICATIONS

- **Student Member (Western India Chapter)**  
ASHRAE India Chapter
- **Registered Architect**  
Council of Architecture (COA)

## ACHIEVEMENTS

- **ASHRAE – Setty Foundation Net Zero Building Design Competition 2025** | Group of 7 | [Link](#)

## SOFTWARE PROFICIENCY

■■■■ Design Builder | Energy Plus  
■■■■ Climate Consultant  
■■■■ Autodesk AutoCAD  
■■■■ SketchUp  
■■■■ Adobe Photoshop  
■■■■ Adobe InDesign  
■■■■ Lumion  
■■■■ MSOffice  
■■■■ Autodesk Revit

## ABOUT ME

I am pursuing an **M.Tech in Building Energy Performance** at **CEPT University**, with a background in **architecture** and a strong focus on **sustainable design**. My work integrates **energy efficiency**, **occupant thermal comfort**, and data-driven strategies into building design. I use **simulation tools** and performance monitoring to develop **low-impact, resilient spaces**, with a keen interest in leveraging building energy performance for ESG reporting and broader sustainability goals.

## EDUCATION HISTORY

- **CEPT University** **2024 - Present**  
Master's in Technology in Building Energy Performance (MBEP)
- **DIT University** **2012-2017**  
Bachelor's in Architecture (B.Arch) | Graduated

## COMPETENCIES

- Building Performance Optimization
- Passive Design Strategies
- Thermal Comfort
- Carbon Footprint Analysis
- Embodied and Operational Carbon
- Decarbonization
- Life Cycle Assessment (LCA)
- Analytical Skills
- Project Planning and Execution
- Collaborative Teamwork
- Environment, Social and Governance (ESG)
- Critical Thinking

## CORE ACADEMIC PROJECTS

### 1. HVAC Lab | [Portfolio](#) January 2025 - April 2025

- Analyzing the impact of sensible heat load on indoor spaces by applying thermodynamic principles of the refrigeration cycle, along with concepts of ventilation, HVAC system components, distribution loops, and terminal units.
- The study also evaluates how indoor and outdoor heat gains influence the selection of an appropriate air conditioning system.

### 2. Passive & Comfort Lab | [Portfolio](#) July 2024 - November 2024

- Applied principles of heat transfer and building envelope design to develop a thermally separated dual-compartment enclosure.
- Facilitating foundational learning in building physics through experimental methods.

### 3. B.Arch Undergraduate Thesis January 2017 - April 2017

- This project preserves and promotes Uttarakhand's heritage through Koti Banal architecture, spaces for performing arts, artifact display, and cultural workshops.
- Thick stone walls evoke a strong spatial experience, while sloped glass roofs enhance daylight and shaded comfort—fostering a deeper connection between visitors, history, and culture.

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## WORK EXPERIENCE

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- **Studio Brics (Ar. Sumanyu Vasudeva), Indore** **May 2022 - June 2024**  
**Senior Architect**
  - › In-depth involvement in **client meetings**, conceptual design, and **detailed site analysis**.
  - › Prepared **working drawings**, **mood boards**, **detailed 3D modelling** with **interior layout**, and **BOQ** for residential and commercial projects.
  - › Responsible for project coordination at various sites, which includes **coordination** with the structural engineer, contractors, vendors etc.
- **LiDha Architects (Ar. Gayathri Maithani), Dehradun** **March 2021 - March 2022**  
**Senior Architect**
  - › Managed the site work of a residential project where we introduced **Shuttered Debris Wall [SHOBRI]**, a patented technique by Ar. Vinu Daniel, which results in 15-20% cost saving with a finishing layer of **lime plaster**.
  - › Involved in the construction of a unique wall art piece with **ferro cement**.
  - › Responsible for coordinating with the client, contractors, and vendors. Alongside, handled the **site renovation** phase of a temple.
- **VaNamu (Ar. Varun Thautam), Bengaluru** **February 2020 - August 2020**  
**Junior Architect**
  - › Involvement at every phase of client meetings, detailed research study on **climatology** and **vaastu** to approach design and spatial planning for a residential project, along with the 3D modelling and drawings.
- **Benny Kuriakose & Associates (Benny Kuriakose), Chennai** **June 2018 - December 2018**  
**Junior Architect**
  - › Prepared project pitch for the **Kerala Government**, Site Documentation, Design Development for **Alleppey Canal Side Development Project**, and prepared **Conservation Report** on Coir Fed Museum.
  - › Prepared the graphics for the **Kerala Flood Manual**, proposed it to the Kerala Government, and it was published in both English and Malayalam.
- **Enia Design Pvt. Ltd (Ar. Shival Manchanda), New Delhi** **June 2015 - October 2015**  
**Intern Architect**
  - › Worked on a commercial, public development, and urban design projects, responsible for conceptual planning for public spaces.

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## WORKSHOPS

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- Documentation project on “Reviving Vernacular Research” in Gujarat by Ar. Navneet Savaliya (NDH Studio) **2021**
- Hands-on Workshop on “Mexican Dome Construction” at Uttur, Maharashtra by Ar. Varun Thautam **2020**
- Hands-on Workshop on “Natural Building Basics” at Auroville by Ar. Manu Gopalan (Sacred Groves) **2018**
- Documentation project on “Conservation of Old Wall Paintings” in Dehradun, by INTACH (Delhi Chapter) **2017**

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## SEMINARS

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- **Healthy Building - HB 2025, An ISIAQ Flagship Conference, Hyderabad** **2025**  
The 3-day-long official event of the International Society of Indoor Air Quality and Climate (ISIAQ). The ISIAQ's Healthy Buildings Conference Series serves as a platform that connects indoor environment science with practical applications.
- **Building Energy Symposium, Ahmedabad** **2024**  
The conference brought together eight distinguished speakers from diverse regions, who shared insightful perspectives on cutting-edge technologies and advanced approaches in building energy performance.
- **UGREEN\_US Green Interiors Roadmap** **2021**  
5 Day Online Live Event by Ar. Filipe Boni.

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## LEADERSHIP

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- **CEPT University, Ahmedabad** **Present**  
Class Representative
- **Building Energy Symposium, Ahmedabad** **2025**  
Organizing member
- **DIT University, Dehradun** **2015**  
Female Security Coordinator for College Fest