MAULIK CHAUDHARY

B.Tech Civil Engineering · 4th Year · CEPT University

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PROFILE

Civil Engineering undergraduate at CEPT University (4th Year, UCE23129) with a strong foundation in structural design, construction technology, and building materials. Experienced in BIM workflows using Revit, with hands-on academic projects spanning hospital design, passive cooling systems, lightweight concrete research, and speculative urbanism. Recognised by the Government of India for an officially registered design (Bigul Bench, Design Reg. No. 439694-001). Active campus leader serving as Cultural Secretary and Campus Ambassador.

EDUCATION

B.Tech – Civil Engineering | *CEPT University* — Jul 2023 – Jul 2028 (Expected) Ahmedabad, India

Student ID: UCE23129 · Faculty of Technology (FT)

Higher Secondary (11th & 12th) | *ALLEN Career Institute* — 2021 – 2023

Subjects: Mathematics, Physics, Chemistry

PROFESSIONAL EXPERIENCE

Trainee – BIM | *VARMINE BIM* — Jun 2026 – Present Ahmedabad, India

- Working with Building Information Modeling (BIM) workflows and Revit for structural and architectural documentation.
- Assisting in model creation, clash detection, and coordination of multi-discipline project data.

Cultural Secretary | *CEPT University* — Aug 2025 – Present Ahmedabad, India

- Coordinated Talent Night, inter-batch performances, and campus-wide cultural activities, ensuring active participation from UG and PG students.
- Led event planning, scheduling, and logistics for large-scale university cultural programmes.

Campus Ambassador | *Agnirva.com Space Community* — Aug 2024 – Present Remote

- Represented Agnirva's space-tech community at CEPT University, promoting science outreach and student engagement.

ACADEMIC PROJECTS

PLICATA: Origami Passive Cooling *UG – BCE – Studio 4*

Explored origami-inspired folded surface geometries as passive cooling shading devices. Investigated structural behaviour and fabrication feasibility of folded thin-shell elements in the context of climate-responsive design.

Bio-Marine Metropolis *UG – BCT – Studio 2*

Speculative urban design project exploring bio-inspired structural and material systems for a future metropolis. Studied energy flows and life systems drawn from marine organisms to inform architectural form and program.

Hospital at Ahmedabad *UG – BCE – Studio 3*

Comprehensive design and structural planning of a multi-storey hospital building in Ahmedabad. Addressed programmatic complexity, structural load paths, façade systems, and healthcare-specific spatial requirements.

PANKHUDI – Lightweight Concrete for Sustainable Construction *UG – BCT – Studio 1*

Research and design project investigating advanced lightweight concrete mix design and its application in sustainable construction. Explored structural efficiency, material properties, and reduced carbon footprint in building systems.

Weaving Techniques *Weaving Techniques Workshop*

Hands-on material exploration of weaving as a structural and surface-making technique. Investigated pattern logic, material behaviour under tension, and applications to architectural skins and assemblies.

HONORS & RECOGNITION

Design Registration – Bigul Bench · Dec 2025

Issued by: Office of the Controller General of Patents, Designs & Trade Marks, Government of India | Registration No. 439694-001 (Class 06-01: Garden Bench)

- Conceptualised and co-developed 'Bigul Bench' during the Concrete Studio at CEPT University — a sculptural concrete garden bench integrating seating and landscape interaction through innovative concrete form design.
- Published by the Intellectual Property Office under the Designs Act, 2000, as part of a multidisciplinary student team.

SKILLS & TOOLS

Software	Autodesk Revit (BIM) · AutoCAD · Adobe InDesign,Photoshop · STAAD PRO D5 Render · SketchUp & Rhino · Climate Consultant
Technical	Structural Design · Construction Technology · Building Materials · Passive Design Systems · Lightweight Concrete
Design	Architectural Drawing · Model Making · Material Exploration · Design Representation
Management	Event Management · Cultural Programming · Community Outreach · Team Coordination
Languages	Gujarati (Native) · Hindi (Fluent) · English (Professional)