RISHIRAJ GHOSH | ARCHITECT, IGBC ™ Accredited Professional, LEED ® Green Associate™

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ABOUT

Detail-oriented Architect with a strong foundation in design and building sciences, currently pursuing an M.Tech in Building Energy Performance at CEPT University. My interests lie in data-driven analysis for building energy simulations, embodied carbon assessment, HVAC optimization and sustainable design strategies. I am passionate about integrating LCA and EPD assessments into practice, I aim to develop optimized, energy-efficient, and low-carbon solutions for the built environment.

WORK EXPERIENCE

Saint-Gobain Research India Private Limited (SGRI), Chennai (Remote)
Industry Led Directed Research Project *(December 2025 – Present)*
Technical evaluation of spectrally selective glazing using energy and daylight simulations, analysing VLT–SHGC trade-offs, spectral transmittance, cooling loads, and circadian metrics (melanopic EDI) under ECBC daylight overcompliance conditions.

CEPT University, Faculty of Technology – PG, Ahmedabad, Gujarat
Program Ambassador, M.Tech in BEP *(1 Year 01 Month; December 2024 – Present)*
Represented the program, facilitated networking, knowledge-sharing, and industry interaction to enhance student participation and professional growth.

Architectonic Services, Kolkata, West Bengal
Architectural Intern *(06 Months; July 2023 – December 2023)*
• Worked on design development, working drawings, and interior design options for residential and commercial projects. Developed detailed 3D models and high-quality renderings for hotels, malls, and residential buildings.
• Prepared working, presentation, and construction drawings for residential, mixed-use, and institutional projects.

SwitchON Foundation, Kolkata, West Bengal
Project Intern *(01 Month; July 2022 – August 2022)*
Worked on planning and development of bicycle routes across Kolkata through mapping, surveys, and analysis, promoting sustainable urban mobility and green transport initiatives.

EDUCATION

M.Tech in Building Energy Performance *(2024- 2026) * Currently Pursuing*
CEPT University, Ahmedabad | Sem III S. G. P. A – 3.90 / 5.00

Bachelor of Architecture *(2019-2024)*
Amity University Kolkata | C. G. P. A. – 8.73 / 10.00

All India Senior School Certificate Examination – 12th (Science Stream) *(2019)*
Haryana Vidya Mandir, Kolkata| Percentage – 64.60%

Secondary School Examination – 10th *(2017)*
Haryana Vidya Mandir, Kolkata | C. G. P. A. – 8.00 / 10.00

SOFTWARE SKILLS

Design Builder, Energy Plus, Climate Consultant, D View, Climate Studio, OneClick LCA, Rhino 3D, R Studio, Vayu Pravah, EQuest, Autodesk AutoCAD, MS Office Suite, Trimble SketchUp, Adobe Photoshop, Lumion

AREAS OF INTEREST

Data-driven building energy simulations, embodied carbon assessment, Life Cycle Assessment (LCA), Environmental Product Declarations (EPD), HVAC system optimization, and sustainable design strategies aimed at developing energy-efficient, low-carbon solutions.

PRIME ACADEMIC PROJECTS

1. MTech, BEP (Lighting and Integrated Design & Whole Building Design Lab) | SEM III
Portfolio *(July 2025 – November 2025)*
Whole-building performance modelling for an ECBC 2017–compliant commercial project, integrating thermal comfort and daylight analysis, envelope heat-transfer optimization, mixed-mode operation, and HVAC system modelling with part-load and ventilation efficiency assessment. Supported design decisions through life-cycle carbon (GWP) and techno-economic analysis.

2. MTech, BEP (HVAC Lab.) | SEM II | Portfolio *(Jan 2025 – April 2025)*
Applied heat transfer and HVAC principles through experiments and simulations, including air-tightness and ventilation tests, air distribution analysis, and system design. Modeled PTAC, VAV, and VRF systems for hot-humid climates, optimizing zoning, sizing, COP, and energy use to improve comfort and reduce EPI.

3. MTech, BEP (Passive Comfort Lab.) | SEM I | Portfolio *(July 2024 – November 2024)*
Designed optimized envelope and applied heat transfer principles to create a hot and cold compartments within to achieve highest temperature difference between them when exposed to outdoor conditions

CERTIFICATIONS

- IGBC ™ Accredited Professional | CII – Indian Green Building Council (IGBC)
- LEED® Green Associate™ | U.S. Green Building Council & Green Business Certification Inc. (GBCI)
- Construction LCA Assessment Analyst | OneClick Building LCA for Architects
- Product LCA Assessment Analyst | OneClick EPD Bootcamp, Europe
- ASHRAE Student Member (Western India Chapter)
- Green Olympiad Participation | TERI & UNESCO
- Educational Assessment for Digital Technologies in Indian Schools | UNSW Global, Australia

CONFERENCES ATTENDED

- Building Energy Symposium by CARBSE, CRDF, CEPT University *(2025)*
- Energy in Buildings and Communities Technical Day by CARBSE, CRDF, CEPT University *(2025)*
- Safety of Steel Structures by HIDCO, Govt. of WB *(2020)*

COMPETITIONS & WORKSHOPS

- Participation in ASHRAE Setty Foundation Net Zero Building Design Competition *(2025)*
- SWAYAM-NPTEL Course, Strategies for Sustainable Design *(2023)*
- Laurie Baker Trophy| NASA | Amongst Shortlisted Top 7 Entry *(2021)*
- Participation in DESTECH Challenge | NASA *(2020)*
- Participation in Observation and Action Network Grants Program| NASA *(2019)*

PROFESSIONAL SKILLS

Presentation, Communication, Keen eye for details, Time management, Group Work, Organization Skills

PERSONAL DETAILS

Date of Birth: 22nd January 2001 Languages: English | Hindi | Bengali Nationality: Indian

DECLARATION

I hereby declare that the above-mentioned details in this resume are true, complete and correct to the best of my knowledge and belief.

PLACE: Ahmedabad, Gujarat (Rishiraj Ghosh)

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