Anisha Panesar

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Graduate student in sustainable design with expertise in energy efficiency, building performance, and material innovation. Passionate about advancing sustainable practices and delivering eco-conscious solutions through architectural expertise.

Education

Carnegie Mellon University, Pittsburgh, PA: *Master of Science – Sustainable Design (MSSD)*   **May 2026**
- **Relevant Coursework:** Environmental Performance Simulation(ClimateStudio/Honeybee/Ladybug), Environmental Systems (RemRate/Climate Consultant), HVAC and Power Supply for Low Carbon Buildings, Shaping Daylight using Simulation and VR, Environmental Life Cycle Assessment, Scripting and Parametric Design (Python in Rhino/Grasshopper), Geospatial Data Analytics in Infrastructure Planning (GIS), Ecological Design Thinking, Paradigms of Research

Measi Academy of Architecture, Chennai, India: *Bachelor of Architecture (B.Arch)*
GPA : 8.56/10.0 ~ 3.5/4.0   **June 2022**
- **Relevant Coursework:** Building Construction in Stone, Mud, Brick, Steel, Concrete, Studio in all scales, Innovative Materials in Construction

Work Experience

Faisal Manzur Design Studio, Chennai**,** India: *Architect*   **March 2024 – May 2024**
- Led design and execution of 6 diverse projects, creating detailed drawings and 3D visualizations with **AutoCAD, SketchUp, V-ray, and Lumion.**
- Supervised Onsite Work and **collaborated with local craftsmen** to ensure quality and efficient delivery.
- Advanced skills in **Adobe Suite** and **MS Office Suite.**

DEVA Interiors, Chennai, India: *Intern Project Manager*   **July 2022 – January 2023**
- Managed interior execution for diverse projects (hospitals, apartment complexes, offices, malls) using **Revit.**
- Improved Construction **quality performance by 20%** by conducting periodic quality checks on materials and monitoring pre-construction and post-construction quality compliance to established standards.

Banduksmith Studio, Ahmedabad, India: *Intern Architect*   **July 2022 – January 2023**
- Supervised projects ranging from **urban-scale designs** to detailed furniture and material selection for residential and commercial spaces utilizing **Rhino** as the primary tool.
- Attended on-site visits to observe construction progress and learn practical aspects of architectural implementation for projects.
- Contributed to research on native agriculture, heritage, and vernacular/sustainable architectural strategies.

Academic Projects

Residential Energy Optimization, Environmental Systems: Climate & Energy in Buildings
- Conducted a comprehensive analysis of a Residence's existing conditions and energy usage in Bowling Green, KY, leading to strategic implementation of targeted retrofits to optimize energy consumption and improve operational efficiency, with anticipated results of over 10% reduction in energy bills.

Parametric Solar Optimization, Scripting, and Parametric Design (Group of 2)
- Developing a parametric script to optimize solar panel orientation and spacing, maximizing simulated sun exposure through generative design systems on Rhino Grasshopper using Python scripting.

Office Building Design, Environmental Performance Simulation (Group of 2)
- Performed detailed climate and solar analysis for an office building in Washington, DC, optimizing form, orientation, fenestrations, and shading using Rhino, Grasshopper, and Climate Studio. Focused on daylight, visual comfort, and thermal performance, with an expected 50% EUI reduction to comply with IECC codes.

Volunteering and Certifications

Renewable Energy, Green Buildings and Entrepreneurship, Duke University
COURSERA, 2023
Principles of Management, John Hopkins University
COURSERA, 2023
Net Zero Construction, Sacred Groves, Auroville
Auroville, 2023

Skills

Software Skills: Rhino, Grasshopper, Climate Studio, Climate Consultant, REM Rate, AutoCAD, Adobe Suite, Google Sketchup, Autodesk Revit, Microsoft Office, Enscape, VRay
Soft Skills: Written and verbal communication, Presentation skills, Collaboration with cross-functional teams, Team leadership, Analytical thinking, Creative problem-solving, Decision-making, Research and Analysis

Awards

- **SoA Merit Scholarship** for Academic Excellence by Carnegie Mellon University   **2024**
- **Anna University Rank:** Graduated as one of the top 30 rank holders of Tamil Nadu   **2022**