Aamarsh Gupta

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WORK EXPERIENCE

SEED Green Solution LLP **Ahmedabad, Gujarat**

Assistant Sustainability Analyst *Nov 2025 - Present*

- Execute energy and daylight simulations for varied projects using **DesignBuilder** and **LightStanza**, achieving **>55% spatial daylight autonomy** (>110 lux) through optimized layout and envelope strategies.
- Manage documentation for **LEED, IGBC, and GRIHA**, ensuring credit compliance by strictly vetting construction materials against **low-VOC and recycled content** benchmarks.
- Author Green Building Feasibility Reports targeting **Gold/Platinum ratings**, utilizing **AutoCAD/SketchUp** and **Excel** to assess compliance and integrate cost-effective sustainability measures.

Mahi Enterprises **Prayagraj, Uttar Pradesh**

Freelance (Remote) - Power and Energy System *Aug 2024 - Dec 2024*

- Engineered a retrofit **Hybrid Solar-Battery system** with **4-hour backup** (Li-Ion) for the Sangam Vihar project , validating design compliance with **Lightning Protection (LPS)** and **Earthing standards.**
- Developed commercial financial models determining **LCOE and ROI** to validate investment viability, while delivering "As-Built" **AutoCAD** drawings to ensure accurate project handover.

INTERNSHIP EXPERIENCE

Solarzon Energy **Prayagraj, Uttar Pradesh**

Technical and Sales Consultant Intern *May 2025 - Oct 2025*

- Conducted techno-economic feasibility studies for **60+ clients**, utilizing **PVsyst** simulations and **Excel financial modeling** (ROI/LCOE) to validate solar adoption strategies.
- Engineered **12+ solar PV layouts** using **Fusion360** and shadow analysis tools (ensuring **95%+ site accuracy**), while leading technical teams to achieve **80% on-time completion** for installation and O&M projects.

UltraTech Cement Limited **Solan, Himachal Pradesh**

Energy Analyst Intern *May 2024 - Jun 2024*

- Achieved a **16% reduction in fuel costs** by re-engineering fuel blends based on **calorific value analysis**, ensuring consistent thermal output for kiln operations while lowering expense.
- Designed a **5–7% solar integration plan** using **PVsyst** and **HOMER**, projecting a **35% cost reduction** for that specific energy segment over a 10-year horizon.

PROJECT EXPERIENCE

SEED Green Solution LLP **Ahmedabad, Gujarat**

High-Performance Building Energy & Daylight Sim. *Nov 2025 - Feb 2026*

- Performed **spatial daylight autonomy (sDA) simulations in LightStanza** to evaluate daylight distribution across regularly occupied areas, identifying zones of underperformance and glare exposure based on annual daylight metrics.
- Supported daylight modeling refinements and façade design suggestions by interpreting simulation outputs, assisting and ensuring **alignment with LEED v4 IEQ Daylight and IGBC credit** compliance requirements.

International Competition & Independent Research **Prayagraj, Uttar Pradesh**

Hybrid Renewable Energy & Carbon Capture Infra. *Nov 2024 - Apr 2025*

- Engineered a multi-modal energy grid generating **~720,000 kWh/year** by integrating a **1,929 kWh/day** Solar-Biogas plant and a **95 kWh/day** Micro-Hydro system, utilizing **AutoCAD** and **PVsyst** for 3D layout planning, shading analysis, and ensuring **90%+ site accuracy.**
- Conducted site suitability analysis using **ArcGIS** and **Excel** to map solar irradiation and biomass availability, optimizing the deployment of grid-connected systems to achieve a projected carbon emission reduction of

1,600 kg/day.

- Designed a modular **80-liter Algae Processing Unit** for urban intersections using waste materials, capable of sequestering **~200 kg of CO_2/year** and producing **104–143 kg of algae biomass** annually as feedstock for the biogas plant**.**

Competition Changethon **Roorkee, Uttarakhand**

Sustainable Plastic-walled Classroom design *Dec 2024 - Mar 2025*

- Designed a **25 m²** modular classroom utilizing **120+ recycled PVC pipes** and **200+ polypropylene bottles**, creating a thermally regulated building envelope that reduced indoor temperature fluctuations.
- Integrated a closed-loop **1,000 L/day rainwater harvesting system** and an **off-grid operation biogas unit** (1.5 kWh/day), achieving **60% lower water and energy footprints** compared to conventional concrete structures.
- Utilized **AutoCAD** to model the "Bottle-Wall" insulation layers, optimizing the structure for daylighting and natural ventilation to minimize active cooling requirements.

SKILLS:

- **Software & Tools:** DesignBuilder, LightStanza, PVsyst, ArcGIS. AutoCAD 2D, SketchUp, Fusion360.
- **Core Competencies:** Energy Modeling, Site Feasibility, Energy Efficiency, Simulation, System Design
- **Green Building Standards:** LEED, IGBC, GRIHA, ECBC, ASHRAE, ISO
- **Soft Skills:** Technical Documentation & Reporting, Client Consultation, Cross-Functional Team Coordination, Project Feasibility Assessment.

COURSES & CERTIFICATES

- Waste to Energy Conversion, NPTEL - ***Certificate Link***
- Green building Concepts Foundations - ***Certificate Link***
- Energy Supply System for Buildings - ***Course-work***
- Sustainable Architecture: Energy Efficiency and Quality, Alison- ***Course-work***

EDUCATION

Lovely Professional University **Phagwara, Punjab**

Bachelor of Technology in Chemical Engineering - 73.6% *Graduation Date: Jun 2026*

Minor in Energy & Sustainability

Sanskaar International Public School **Prayagraj, Uttar Pradesh**

Senior Secondary (Science) - 70% *Graduation Date: Jun 2022*

New R.S.J. Public School **Prayagraj, Uttar Pradesh**

Secondary (Science) - 82.4% *Graduation Date: Mar 2020*