Youssef Mostafa

Renewable Energy Student | Aspiring Engineer | Innovation Enthusiast

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SUMMARY

Renewable Energy student interested in engineering design, sustainable energy solutions, and practical problem-solving. Continuously developing technical skills in CAD and engineering research while looking for hands-on opportunities to turn academic learning into real-world applications.

EDUCATION

Renewable Energy (Currently Studying)

Focus Areas: Engineering design, solar thermal energy, and sustainable technologies.

PROJECTS

Solar Water Heater — Academic Team Project

Field: Renewable Energy Engineering | Role: Team Member

- Participated as a team member in developing and assembling a rooftop solar water heating system using evacuated-tube collector technology.
- System specifications: 3 evacuated tubes (58 mm diameter, 180 cm length), 30 L main heater tank, 50–60 L elevated feed tank, polished aluminium reflector, safety valve, non-return valve, outlet valve, temperature gauge, and metal support frame.
- Engineering areas covered: solar thermal energy, evacuated-tube collectors, thermal insulation, reflector design, and physical components assembly.

SUNOVA Energy — Early-Stage Concept

Field: Renewable Energy Entrepreneurship | Status: Idea under study (not an operating company)

- Exploring a renewable energy service concept focused on helping homeowners and small businesses compare clean energy options clearly.
- Current focus: concept development, business planning, market research, and exploratory investor presentation development.
- Transparency note: SUNOVA is an early-stage idea with no customers, revenue, investment, or commercial partners.

SKILLS

Technical Skills: AutoCAD (Beginner), SolidWorks (Beginner), Renewable Energy Fundamentals (Studying), Engineering Research (Developing) — levels stated honestly without percentages.

Soft Skills: Teamwork, Communication, Problem Solving, Critical Thinking, Adaptability, Self-Learning

Areas of Interest: Solar Thermal Energy, Engineering Design, Sustainable Technologies, Innovation and Entrepreneurship

PERSONAL DEVELOPMENT

- **Engineering Design:** Progressing from beginner to confident proficiency in AutoCAD and SolidWorks.
- **Energy Systems:** Deepening technical knowledge of renewable energy technologies and solar thermal systems.
- **Research Habits:** Finding, reading, and applying technical sources effectively.
- **Professional Growth:** Strengthening communication, teamwork, and structured project planning.