

PRASHIS HAMBARDE

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OBJECTIVE

Motivated Physics undergraduate at NIT Warangal with hands-on experience in nanomaterial synthesis, energy harvesting systems, and technical project leadership. Seeking research, analytics, or technology-driven roles where analytical thinking, experimentation, and problem-solving skills can be applied.

EDUCATION

National Institute of Technology Warangal Nov 2022 – Present
B.Sc. (Hons.) Physics
CGPA: 6.99

Shivaji Multipurpose Higher Secondary School 2021
Percentage: 80.33%

Arunodaya English School 2019
Percentage: 88.20%

SKILLS

Technical Skills: Nanomaterial Synthesis, XRD Analysis, Energy Harvesting Systems, Basic Data Analytics

Business Knowledge: HR Analytics, Investment Management, Entrepreneurship Fundamentals

Soft Skills: Communication, Team Leadership, Event Coordination, Problem Solving

PROJECTS

Iron Oxide–Based Triboelectric Nanogenerator (TENG) for Energy Harvesting

- Synthesized nano iron oxide using green ball milling; confirmed hematite phase via X-ray Diffraction (XRD).
- Fabricated vertical contact-separation TENG (Fe_2O_3 + FEP film).
- Achieved 250V open-circuit voltage and $60\mu\text{A}$ short-circuit current.
- Recorded peak power density of 1.2 W/m^2 with 1500+ cycle stability.
- Successfully powered 240 LEDs and a 9V bulb using mechanical tapping.

LEADERSHIP EXPERIENCE

Joint Secretary, Physics Society, NIT Warangal 2024 – Present

- Organized National Science Day event including guest lecture coordination and logistics management.
- Led team demonstration of Iron Oxide-based Triboelectric Nanogenerator during institutional events.
- Coordinated student engagement activities and academic discussions.

CERTIFICATIONS

- HR Analytics – NPTEL, IIT Roorkee (Elite + Silver)
- Entrepreneurship – NPTEL, IIT Madras (Elite + Silver)
- Investment Management – INI (BHU)