

SHAH NAWAZ ANSARI

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Mailing Address

Khumaltar , Lalitpur, Kathmandu, Nepal

Permanent Address

Fultekra Road, Nepalgunj, Nepal

PROFESSIONAL SUMMARY

Dedicated Mechanical Engineer with specialization in renewable energy and extensive experience in mechanical design, analysis, and instruction. Proficient in CAD modelling, CFD analysis and simulation with proven ability to lead projects from idea generation to execution stage. Enthusiast and passionate to drive innovation and technical engineering for improving efficiency in engineering solutions by leveraging technical expertise.

EDUCATIONAL QUALIFICATION

- **Master of Science (M.Sc.) in Renewable Energy Engineering**
Pulchowk Campus, IOE, Tribhuvan University, Kathmandu, Nepal | 2020-2022
- **Bachelor of Technology (B.Tech.) in Mechanical Engineering**
Malaviya National Institute of Technology (MNIT), Jaipur, India | 2012-2016

PROFESSIONAL EXPERIENCE

- **Technical Officer (Mechanical)**
Nepal Academy of Science and Technology (NAST), Lalitpur | February 2024-Present
 - Carrying out research on projects focusing mainly on renewable energy and sustainability.
 - Conducting mechanical design, modelling and simulation using CAD and CFD tools.
 - Interpreting every detail from manuals for carrying out testing and validation of mechanical equipment.
 - Collaboration and interacting with cross-functional teams in order to enhance the research abilities and obtain problem solving results.
- **Mechatronics Instructor (Officer Level)**
Balaju School of Engineering and Technology, Kathmandu | CTEVT | December 2021- February 2024
 - Taught and Developed curriculum for subjects such as Manufacturing Technology, Fluid Mechanics and Renewable Energy to diploma students.
 - Consoled and guided students through demonstration and practical activities of mechanical concepts.
 - Implemented diverse instructional methods to enhance the performance and understanding
- **Mechanical Instructor (Officer Level)**
Bheri Technical School, Nepalgunj | CTEVT | December 2018 – December 2021
 - Taught core mechanical engineering subjects like thermal engineering, AutoCAD, workshop practice, etc. to diploma students.

- Designed lab exercises in order to demonstrate theoretical concept for understanding
- Mentored and consoled students in project work, helping them develop practical skills in mechanical engineering.

PROJECTS AND ACTIVITIES

- Research in improvement of the stability and design of E-rickshaw
- Conversion of ICE vehicle to Electric Vehicle (EV)
- Working in renewable energy projects such as small hydro and low head turbines
- Emission analysis and drive cycle of vehicles
- CFD modelling and experimental verification of solar still for improving solar desalination output
- Design of cooling system by using PCM to increase effectiveness
- Use of DMAIC tool from six sigma for variation reduction in process
- Design of mobility bicycle
- Volunteering enthusiast at technical and social awareness programs
- Attended different training contributing in the enhancement of instruction, communication and presentation skill

PUBLICATIONS

- **“Evaluation of Distillate Yield in 3D-Single Slope Basin Type Solar Still: A Comparative Study of CFD and Experimental Approaches”** at Computational Sciences and Engineering. Available Online from: 26 August, 2024.
- **“Passive Cooling of Buildings with Phase Change Materials Using Fins to Increase Effectiveness of Thermal Storage Units”** at Maejo International Journal of Energy and Environmental Communication. Volume 6, Issue 1, 62-69. Year: 2024 , Month: April
- **“Experimental Investigation of Parameters Affecting Productivity of Single Slope Basin Type Passive Solar Still “at 12th IOE Graduate Conference.** ISSN: 2350-8914, 2350-8906, Volume: 12, Year :2022, Month: October

SKILL SET

- **Software Proficiency:** ANSYS Fluent, Solidworks, AutoCAD, Autodesk Inventor, Altair Hypermesh, Motionview, Labview, PVsyst
- **Engineering Tools:** FEA, CFD, CAD Modelling, Simulation and Thermal Analysis
- **Technical Engineering:** Assembly, testing and validating, modeling, simulation and analysis
- **Microsoft Office:** Word, Powerpoint, Excel
- **Language Proficiency:** English, Nepali, Awadhi, Hindi, Urdu
- Excellent communication, presentation and time management skills

DECLARATION

I hereby declare that the information provided above are true to the best of my knowledge and belief.

