

Sagar Joshi

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Career Objective

I am a final-year master's student in Mechanical Engineering at the University of Technology Sydney. I seek a job to apply my academic knowledge and hands-on experience in mechanical design, project management, and technical documentation. I am proficient in industry-standard software like AutoCAD, ANSYS, and Solid Edge, and I have a proven ability to lead multidisciplinary engineering projects to successful completion.

Education

Master of Professional Engineering (Mechanical)

July 2022 to Nov 2024 (Expected)

University of Technology Sydney, Ultimo, NSW

Achievements

- Participated in a collaborative research project on Hydrogen Storage Optimization in Metal Hydrides
- Received High Distinction in multiple subjects, mainly core subjects, demonstrating academic excellence and commitment to the field.

Bachelor of Engineering (Mechanical)

May 2014 to June 2018

Visvesvaraya Technological University (VTU), India

Achievements

- First Class with a Distinction average
- 2-Day National Level Workshop on IC Engine Overhauling

Software Proficiencies

- Auto-Cad/SolidEdge
- ANSYS (v14.5 basic)
- CNC TURN (v10 basic)
- CNC Mill
- Workbench
- MATLAB
- MS Office

Work Experiences

Project Manager

Nov 2019 - Jan 2022

Pu Chuang Technology Pvt. Ltd. Panipokhari, Kathmandu, Nepal

Project: Installation and Testing of Underground Optical Fiber Network Project in Province 3 of Nepal and Construction of Telecommunications Tower for Nepal Telecom's 4G Network

- Oversaw planning and execution of optical fiber and 4G tower projects.
- Directed multidisciplinary engineering teams for timely deliverables.
- Controlled budget and costs.
- Compiled bid documents and estimates.
- Writing contract documents for subcontractors
- Researched competitive pricing.
- Managed client's and subcontractors' relations.
- Maintained compliance with quality and safety standards according to the project guidelines.
- Mitigated project risks.
- Generated status reports for stakeholders.
- Ensured activities met company and regulatory guidelines.

Mechanical Engineer

Sep 2018 - Oct 2019

Pu Chuang Technology Pvt. Ltd. Panipokhari, Kathmandu, Nepal

- Managed the selection, maintenance, and operation of equipment for trenching and laying underground optical fiber cables in the NT RTDF Optical Fiber Network Project.
- Designed and installed protective conduit systems for optical fiber cables, ensuring durability and mechanical protection.
- Conducted stress and load analysis for telecommunication towers to ensure structural integrity and stability against environmental forces.
- Helped design and implement mounting systems for antennas and telecommunication equipment.
- Supported the installation and maintenance of HVAC systems in equipment shelters.
- Assisted in developing and implementing safety features, including ladders, guardrails, and fall protection systems, to ensure compliance with safety standards.

Relevant Project

Studies on mechanical behaviors of epoxy resin composite reinforced with glass, carbon fibre, and granite powder (2017-2018) (Received HD)

Visvesvaraya Technological University

- Engineered a physical composite material by varying proportions of epoxy resin, e-glass, carbon fibre, and granite powder.
- Conducted mechanical tests to evaluate the material's tensile strength, compressive strength, and durability.

- Analysed data to assess how each component influenced the composite's mechanical properties.

Hydrogen Storage Optimization in Metal Hydrides Using Computational Fluid Dynamics (CFD) Simulations and AutoCAD (2023-current)

University of Technology Sydney

- Currently utilising CFD simulations to optimise hydrogen storage capacities in metal hydrides.
- Employing Solid Edge for precise design and modelling of storage compartments.
- Aiming to improve storage efficiency and reduce costs, contributing to sustainable energy solutions.

Transferable Skills

Project Management Skills: Demonstrated effective oversight of installing the underground optical fiber network project and 4G tower construction for Nepal Telecom, successfully managing budgets and timelines to ensure project completion.

Team Leadership: As an assistant mechanical engineer, I have a proven ability to lead multidisciplinary teams, ensuring project excellence and timely delivery through coordinated efforts.

Technical Acumen: Displayed strong technical skills through hands-on responsibilities, including design, analysis, and maintenance of mechanical systems and components in various projects.

Stakeholder Communication: Skilled in liaising with stakeholders, subcontractors, and internal teams, maintaining transparency, and ensuring accountability throughout project lifecycles.

Risk Management: Proactively identified and mitigated risks in large-scale engineering projects, safeguarding project objectives and ensuring smooth execution.

Inventory Management Skills: I efficiently managed the inventory of parts and tools, ensuring optimal stock levels and timely restocking to support project operations.

Documentation and Compliance: I ensured that all activities and maintenance work complied with company and regulatory standards and were backed by thorough and accurate documentation.

Other language: Nepali and Hindi

Reference

Available on request