

Suman Pathak

Mechanical Engineering Student


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in <https://www.linkedin.com/in/suman-pathak-09024a235>

Profile

A final year mechanical engineering student with a specialization in Design and Manufacturing, I possess a predilection for energy-related endeavors. My participation in the Shell Eco Marathon Indonesia, where I assisted in the construction of a fuel-efficient vehicle, has furthered my interest in this field.

Education

07/2018 – present Dhulikhel, Nepal	Mechanical Engineering <i>Kathmandu University, School of Engineering</i>  Specialized on Design and Manufacturing
06/2016 – 06/2018 Butwal, Nepal	+2 Science <i>Manimukunda HSS/College</i>

Professional Experience

01/2023 – present Lalitpur, Nepal	HVAC Design Engineer <i>Himal Refrigeration & Electrical Pvt. Ltd.</i> <ul style="list-style-type: none">HVAC system design and analysis for commercial and residential buildings using software such as AutoCAD and HAPLoad calculations, duct sizing, equipment selection, and construction document preparation, and continually improving skills in data analysis and project management with Excel.
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Skills

CAD/CAM SOLIDWORKS, AUTOCAD, CREO	● ● ● ● ●	Microsoft office Word, Excel, Powerpoint, Visio	● ● ● ● ●
3D printing SLS/SLA, 3D scanning	● ● ● ● ●		

Organizations

08/2018 – 02/2020 Kavre, Nepal	Association of Rural Development <i>Volunteer</i> Organizing and implementing community programs and projects. Collaborating with local stakeholders to identify needs and opportunities.
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Providing support for administrative tasks and contributing to research, fundraising, monitoring, and evaluation efforts.

Kathmandu University

Team Junkiri

Design and Marketing Team

- Formed a team of 9 engineering undergrad students.
- Developed a energy efficient vehicle with mileage over 200KmpL

Languages

- English
- Nepali
- Hindi

Certificates

CSWA- Solidworks Associate

Mechanical Design

ID C-CH26T3LXJN

Projects

- | | |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| 06/2022 – present | Study of Earthquake Resistant Building For Passive and Active Thermal Retrofitting Strategy- A Case Study |
| 06/2021 – 05/2022 | Design and analysis of low temperature refrigeration system oriented to store vaccine against COVID-19 |
| 05/2020 – 05/2021 | 3D Design and preparation of manufacturing plan for motor powered sand sieving machine |

Courses

- | | |
|--------|-------------------------------------------------------------------------------------------|
| Online | Autocad for Technical Drawing for Design and Drafting
<i>Autodesk</i> |
| Online | Energy Efficiency and Energy Saving Potentials for Industries
<i>Atingi.org</i> |
| Online | Product Management Essential
<i>Coursera</i> |
| Online | Passive Urban Cooling Solution
<i>World Bank Group, OLC</i> |

Awards

Technical Inspection Pass

Shell Eco Marathon, Indonesia