

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>

Languages

- English
- Nepali
- Hindi

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 HAP• Load 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	● ● ● ● ●	TRNSYS	● ● ● ● ●
Team Work	● ● ● ● ●	Communication	● ● ● ● ●

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. Providing support for administrative tasks and contributing to research, fundraising, monitoring, and evaluation efforts.
Kathmandu University	Team Junkiri <i>Design and Marketing Team</i> <ul style="list-style-type: none">• Formed a team of 9 engineering undergrad students.• Developed a energy efficient vehicle with mileage over 200KmpL

Certificates

CSWA- Solidworks Associate Mechanical Design ID C-CH26T3LXJN	Solidworks Advanced Surfacing (CSWPA-SU) C-2NLZ3D4BXV	AutoCAD- Technical Drawing for Design and Drafting Autodesk
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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	Introduction to Microsoft Excel <i>Coursera</i> https://coursera.org/verify/DWK9SMFK5DXC
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>

Achievement

10/2022	Participated and passed the technical inspection <i>Shell Eco Marathon, Indonesia</i>
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