

Sailesh Sitaula

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SUMMARY

Industrial Engineering student with experience in robotics, policy research, and curriculum development. Skilled in thermal analysis, experimental testing, and data analysis, with a track record of optimizing processes and enhancing efficiency. Passionate about applying engineering expertise to education, technology, and sustainability to drive real-world impact.

EXPERIENCE

Data Analyst

Learnsic

December 2024 – April 2025, Nepal

- Executed video quality assurance by collaborating with a team of industry experts to optimize visual and audio content for an engineering entrance preparation course using data quality assessment tools.
- After the launch of the course, transitioned to data analysis with a focus on boosting user engagement, achieving a 30% increase in user engagement.
- Analyzed user data from STEM course platforms using SQL and Python to pinpoint user drop-off points, resulting in a 20% retention rate improvement over 6 months.

Product Engineer

Nepal Mind Factory

April 2025 – October 2022, Nepal

- Conducted load calculations and optimized design to successfully implement cost-effective cold storage solutions, leading to a 20-25% decrease in food wastage.
- Implemented Coolbot-based cold storage technology, leading to a 25% increase in energy efficiency.
- Implemented enhanced resource allocation algorithms, reducing operational costs by 5-10% and achieving a 10-20% improvement in Power Usage Effectiveness (PUE).

Internship

Nepal Mind Factory

February 2022 – April 2022

- Worked under a team in the Magic Bit initiative to teach Grade 6-10 kids about simple and easy-to-use robotics codeless magic block.
- One of the problem we faced was related with heat-sealing process so we addressed it by using recycled wood pulp after testing various materials, achieving a 15-20% cost reduction while improving seal quality.

PROJECT

Design, Fabrication, and Testing of Vehicular wind-powered Vertical Axis Wind Turbine.

Quality Control in Lokta Paper Production with Computer Vision

Seminar paper on comparison Between CoolBot Technology and Conventional Refrigeration System Cold Storage

EDUCATION

Masters of Engineering Science

Lamar University · Beaumont, Texas · 2026

Bachelor in Industrial Engineering

Institute of Engineering, Tribhuvan University · Kathmandu, Nepal · 2023

CERTIFICATIONS

Data Manipulation in Python: Master Python, Numpy & Pandas

Easy Python Programming For Absolute Beginners SQL in Python

SKILLS

AutoCAD and Solid works, MATLAB, ANSYS, Python, CAD/ CAM, CNC Machining, Microsoft Office, OpenCV, SQL
