

SAROJ BASNET

Mechanical Engineering Student | Youtuber

✉ sarojbasnetp@gmail.com
📧 sarojbasnet369

📞 9800000000
📺 sarojbasnet369

🌐 www.basnetsaroj.com.np
📍 Kathmandu, Nepal

📺 sarojbasnet369
🏠 Dingla, Bhojpur

OBJECTIVE STATEMENT

Mechanical Engineering student (awaiting results) at IOE, Pulchowk Campus with a strong foundation in design, simulation, manufacturing processes, and a growing passion for data analysis, AI, coding, and creative content development. Seeking an opportunity to apply technical, analytical, and creative skills in a challenging and growth-oriented environment. Eager to contribute to innovative projects, enhance problem-solving abilities, and continuously learn across interdisciplinary domains.

PROJECTS

Fabrication of Plastic Injection Molding Machine

Collaborated with a team of peers

📅 May 2022 – February 2023

- Built a plastic injection molding machine using local materials.
- Gained hands-on experience in manufacturing.

Design and Fabrication of Distillation Apparatus for Alcohol Micro Distillery

Bachelor Final Year Project

📅 June 2024 – March 2025 📍 Pulchowk Campus

- Designed a fully functional distillation apparatus.
- Selected for Pulchowk Innovation Program 2081.
- Improved purity, concentration, and safety of the distillate.

EDUCATION

Bachelor in Mechanical Engineering

IOE Pulchowk Campus (Tribhuvan University)

📅 May 2021 – April 2025 📍 Pulchowk, Lalitpur

- Awaiting result

SLC (NEB +2 Science)

Nepal Mega College

📅 2018 – 2020 📍 Babarmahal, Kathmandu

- GPA: 3.65/4.0

SEE (NEB)

New Summit English Boarding School

📅 2018 📍 Dingla, Bhojpur

- GPA: 3.60/4.0

EXPERIENCE

Internship

Gorkha Brewery Pvt. Ltd.

📅 Sept – Oct 2024 📍 Mukundapur, Nawalpur

- Plant layout optimization
- Machine part documentation

Startup Orientation Workshop & Bootcamp

Industrial Enterprise Development Institute (IEDI)

📅 06 – 23 May 2025 📍 Kathmandu, Nepal

- Completed 13-day training on entrepreneurship, business planning, and startup development.
- Gained hands-on experience in market research, financial planning, and business registration.
- Developed and presented an individual business plan with expert coaching.

ACHIEVEMENTS



3D Design Hackathon winner – MechTriX 2081

24 hour hakathon: Design of a Modular, Versatile, Frugal, Small-Scale Agricultural Machine for Cash Crop Cultivation in Nepal



2nd Runner-up – Nepal Techno-Fest 2025

Design and Fabrication of Distillation Apparatus for Alcohol Micro Distillery



Best Engineering Award – MechTriX 2079

Plastic Injection Molding Machine



Secured 3rd Rank

IOE BE/BArch. Entrance Exam 2077



Independent Treasurer Candidate – FSU 2081

Received 599 votes (20%) in the Free Student's Union election at IOE Pulchowk Campus



YouTube Community

Developed a YouTube community of over 10k subscribers.

SKILLS

Teamwork

Time Management

Adaptability

Python

MATLAB

C Programming

ANSYS

HTML & CSS

SolidWorks

AutoCAD

Microsoft Excel, Word & PowerPoint

LATEX

Scriptwriting: Comedy & Educational Content

Image Editing: GIMP, Canva

Adobe Premiere Pro

LANGUAGES

- Nepali : Native proficiency

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- English : Professional working proficiency

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- Hindi : Limited working proficiency