



Lekhnath Gyawali

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📍 Erlangen, Germany
Nationality: Nepalese

in [in/lekhnath-gyawali-865171199](#)

Mechanical Engineer with a strong foundation in design and manufacturing processes, experienced in utilizing tools like SOLIDWORKS and ANSYS. Proven track record in optimizing hydraulic systems, developing CAD designs, and performing finite element analysis. Currently pursuing an MSc in Clean Energy Processes, with a focus on sustainable energy technologies and system optimization.

Computational Skills

SOLIDWORKS, Creo, Onshape. ANSYS(CFX, Fluent), MS Office Package, AutoCAD, Python

Education

Friedrich Alexander University
MSc Clean Energy Processes

2024 – *in progress*
Grade: 1.9



Key Courses: Process control and safety, Energy market modeling

Kathmandu University
BE in Mechanical Engineering

2023
Grade: 1.7

Specialization: Design and Manufacturing

Key Courses: Fluid Dynamics, CFD, CAD, Heat Transfer, Manufacturing Processes, Mechanics

Professional Experience

Internship, Hydro-Consult Engineering Ltd.

Jan 2023 – Apr 2023, Kathmandu, Nepal

- Performed detailed CAD design and finite element analysis using SOLIDWORKS and ANSYS for hydraulic components.
- Designed mechanical components, ensuring compliance with engineering standards.
- Collaborated with senior engineers to optimize design processes.

Mechanical Engineer, Autolab Technologies

Dec 2023 – Feb 2024, Kathmandu, Nepal

- Managed the identification and conversion of product codes for linear guides.
- Played a key role in database integration, improving product information accessibility.
- Contributed to continuous improvement strategies for product development processes.

Certificates

Exponential Change in the Field of Digital Fabrication in Nepal

- *FABLAB Nepal*

Acquired practical skills in digital fabrication, including 3D printing technologies, CNC machining and Product Design.

Projects

Assessment of Iron Reduction Processes for Green Steel Production.

Bachelor Project

Investigated different reduction processes and performed a techno-economic assessment of the H₂-DRI system.

Design and Analysis of Low-Temperature Refrigeration System.

Design and Analysis of Sand Sieving Machine.

Design and Fabrication of Rocker Bogie Prototype.

Languages

German
B1 level

English
C1 level

Nepali
Mother tongue

Hindi
C1 level