



Yogesh Kaushik

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Date of Birth: Dec 16, 1995

Objective

As a recent graduate with a Master's in Sustainable Manufacturing and a Bachelor's in Mechanical Engineering, my career objective is to leverage my technical expertise and passion for sustainability to contribute to the field of manufacturing. I am to apply innovative and eco-friendly principles to optimize manufacturing processes, reduce environmental impacts, and drive sustainable growth for organizations in terms of economic, social, and environmental aspects. I am eager to collaborate with multidisciplinary teams and continuously enhance my skills to create a positive impact on both industry and the environment.

Education and Course

2020 - 2022

Masters - Master of Science (Sustainable Manufacturing)

Norwegian University of Science and Technology, Norway

Major subjects: Product Development, Zero Defect Manufacturing, Industry 4.0, Sustainable Manufacturing Technology/System, Life Cycle Analysis, Industrial Sensors Technology.

Thesis: Modeling and RSM based Multi-objective Optimization of product production inside CP factory.

2015 - 2019

Bachelors - Bachelor of Technology (Mechanical Engineering)

Babu Banarasi Das University, Lucknow, India

Project: Design and Fabrication of Aqua Silencer for two-wheeler.

July, 2018 - Oct, 2018

Online Certification 12-week course on Manufacturing System Technology 1 & 2

National Programme on Technology Enhanced Learning (NPTEL).

IIT, Kanpur, India.

2016 - 2017

AutoCAD & Solidworks Software Course

Orane Labs SIIC

IIT, Kanpur, India

Work experience

Dec 28, 2018 - Jan 25, 2019

Internship

Ghorahi Cements Pvt. Ltd, Dang

As a trainee in the overall process of mechanical department of cement manufacturing and maintenance.

June 06, 2018 - July 07, 2018

Internship

Tata Motors (MGS), GIDA, Gorakhpur

As Intern in maintenance section of Internal Combustion Engine and Power Transmission.

June 07, 2017 - July 06, 2017

Internship

Jagdamba Steels Pvt. Ltd, Simra

As a trainee at Continuous Casting Machine (CCM) and small rolling mill (SRM), particularly TMT bars.

Dec 12, 2016 - Jan 15, 2017

Internship

Shri Ram Sugar Mills Pvt. Ltd, Garuda

As a trainee in the overall process of mechanical department of sugar manufacturing and maintenance.

Project experience

July 2021 - Nov 2021

CNC Milling Project inside CP factory.

The goal of the project is to obtaining an improve quality of surface roughness during the production of mobile cover inside a cyber physical factory.

Overall project management. Major responsibilities were:

1. Design the prototype in CAD file and generating toolpath using SolidCAM.
2. Design the Experiments for Optimization process.
3. Performing the Experiments on the respective Manufacturing machines.
4. Extraction of Responses data from the prototype.
5. Design of optimization model.
6. Validation of the model.

Aug 2021 - Jan 2022

Machine Vision for In-line Quality Inspection inside CP factory.

The scope of this project is to identifying the surface roughness features using a machine vision system and developing co-relation between the extracted texture feature and measured 2D parameters.

Position: Researcher and Project Team Member.

Skill earned: project management, Team work, Design and Development

Responsibilities were:

1. Overall Research study.

2. Design of experiment, Design of CAD for Prototype, Conducting experiment.
3. Design and Fabrication of Machine Vision Instrument.
4. Extraction and Analysis of the response data.

Jan 2022 - Mar 2022

imPure_NTNU

The goal of this project is to design a machine-learning model of optimized machining process considering Gd & T, for Injection Moulding mould.

Worked as a project team member were other team members as mainly Professors.

Skill earned: project management, Team work, Design and Development, Time Management, Machine Learning, CMM operation.

Responsibilities were:

1. Overall Research study.
2. Design of experiment, Design of CAD for Prototype, Conducting experiment.
3. Extraction and Analysis of the response data.
4. Designing Machine Learning model.

Research Work in Context to Environment and Sustainability

Aug 2020 – Dec 2020

Modelling of Solid Waste Management in Context of Kathmandu

Research Outcome: Designed one small system dynamic model simulation for the solid waste management system for Kathmandu City.

Jan 2020 – June 2020

Cloud-Based Disassembly and Waste Electrical and Electronic Equipment (WEEE) Management to Implement Circular Economy

The aim of this study is to develop a framework that implies the 3Rs principle of circular economy to support a cloud-based WEEE management system.

Aug 2021 – Dec 2021

Solar Photovoltaic Module and its Sustainability

This study highlights the brighter and darker sides of using solar PV modules and also proposes a solution to overcome the negative impact under the guidelines of the circular economy with the potential for repair, reuse, and recycling.

Aug 2021 – Dec 2021

Life Cycle Assessment of Biochar Production Process and Mitigation of Global Warming Potential in Context to Norway

Performed LCA on the pyrolysis process for making Biochar and compared the impacts with the current environmental condition of Norway. The study has a promising outcome for mitigating the carbon dioxide emissions as well as great benefit for land health.

Skills

Educational Software

- AutoCAD/Solidworks
- SolidCAM
- Simapro/OpenLCA
- Minitab
- FEA/ABAQUA

Instruments and Machine

- 3d-Printing
- CNC Milling
- Coordinate measuring machine
- Profilometer
- Laser scanner

Digital Skills

- Microsoft office
- Zoom
- Microsoft Teams/ Outlook

Programming Language

- Java (Basic)
- Programming in C# (Intermediate)
- Python (Intermediate)

Language

Language	Speaking	Reading	Writing
Nepali	Excellent	Excellent	Good
English	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Average

Personal Information

Gender: Male

Permanent Address: Gaur-05, Rautahat, Nepal

Marital Status: Unmarried

References

On Request.