



Ashim Joshi

Date of birth: 27 Oct 2001 | **Nationality:** Nepalese | (+977) 9851313894 |

ashim.joshi@hotmail.com | ashimjoshi.com.np |

Kathmandu University road, Dhulikhel, 45210, Dhulikhel, Nepal

WORK EXPERIENCE

JUL 2021 – CURRENT – Nepal

PROGRAM COORDINATOR – GRIDVILLE-KU

GridVille is a unique interdisciplinary program that aims for a student-built, green, sustainable power system. It is an NTNU-Kathmandu University (KU) student mutual collaboration program.

- To determine the energy necessity of the region not connected to the national grid
- To install solar/wind/micro-hydropower system creating a local grid
- To work on social areas collaborating with local governments regarding sustainable community development

Currently,

- Working on the design, development and installation of 25 kW Francis micro-Hydropower system

Website <https://iug.no/gridville/>

JAN 2020 – CURRENT – Dhulikhel, Nepal

RESEARCH ASSISTANT IN UNIVERSITY – TURBINE TESTING LAB, KATHMANDU UNIVERSITY

2020-22

- Technical and information management of lab
- Practiced developing micro-hydropower
- Worked in the field of green hydrogen energy and its end use produced from surplus hydroelectricity.
- Organization of IAHR-Asia 2021

2022-Current

- Current energy scenario of Nepal and future possibilities (FranSed Project)

Website <http://ttl.ku.edu.np/members-html/>

MAY 2022 – SEP 2022 – Dhulikhel, Nepal

PART TIME RESEARCHER – GREEN ROAD WASTE MANAGEMENT, NEPAL

- Preconformed Gate-to-Gate Life Cycle Assessment of Mechanical Recycling, Chemical Recycling, and Landfilling of Mixed Plastic Waste

OCT 2021 – SEP 2022 – Dhulikhel, Nepal

ADVISOR – GREEN CLUB OF THOUGHTS AT KATHMANDU UNIVERSITY

- Worked as an advisor to the club with the capacity of immediate past president

Website <https://gctatku.org.np/>

SEP 2020 – NOV 2021 – Dhulikhel

PRESIDENT – GREEN CLUB OF THOUGHTS AT KATHMANDU UNIVERSITY

- Collaborated with different schools of the university for exposure to national issues enhancing students' personal technical and academic skills
- Organized national and international schools on OpenFoam and molecular dynamics simulation

- Initiated publishing of quad-monthly semi-scholarly transdisciplinary journal
- Initiated more than four long-term outreach projects on STEAM in different corners of the country

Website www.gctatku.org.np

FEB 2020 – NOV 2021

CONFERENCE MEMBER – INTERNATIONAL SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS, IAHR-ASIA 2021

- Worked as a conference organizing committee member of International Symposium on Hydraulic Machinery and Systems
- Coordinated technical and administrative management, and logistics of the conference

Website <http://iahr-asia2021.ku.edu.np/>

2017 – 2020

VOLUNTEER – KATHMANDU UNIVERSITY SUPERCOMPUTER CENTER

- Constructing and Managing High-Performance Computing (HPC) Cluster
- Advocating about HPC in Nepal

2014 – 2018 – Ilam

PRESIDENT – ECO-CLUB, NCDC

- Worked on sustainable school environment promoting program
- Built water filtration tank for the community of 500 people

Website <http://ncdcilam.org.np/>

2014 – 2016 – Ilam

DELEGATE – NATIONAL HUMAN RIGHTS COMMISSION

- Represented school for two consecutive years in National Human Rights Commission annual seminar.

● EDUCATION AND TRAINING

2017 – CURRENT – Dhulikhel, Nepal

BACHELOR'S DEGREE – Kathmandu University

Current CGPA: 3.85

Address Kathmandu University road, Dhulikhel, Nepal | **Website** www.ku.edu.np |

Field of study Mechanical Engineering

SEP 2020 – MAY 2021

INTRODUCTION TO QUANTUM COMPUTING COURSE – IBM Quantum and The Coding School

- Introductory linear algebra, coding Qiskit, quantum mechanics, algorithms and applications

Website <https://www.ibm.com/blogs/research/2020/10/quantum-coding-school/> |

Field of study Quantum Computing

● CONFERENCES AND SEMINARS

24 NOV 2021 – 25 NOV 2021 – Kathmandu University

Third IAHR Asia Symposium on hydraulic Machinery and Systems

26 FEB 2021 – Online Based

Diversity in Quantum Computing Conference

Organized by: Qubit by Qubit (QxQ)

2019 – Online Based

Global Hands-on Universe Conference

2018 – Kathmandu University

First National Automobile Conference

2018 – Pokhara

GHOU's First Asia Regional Conference

2015 – Biratnagar

Global Workshop on Recent Research Techniques

Organized by : Brainy Cube Nepal and Nepal Chemical Society

● PUBLICATIONS

Personal exposure to Particulate Matter in Various Modes of Transport in Kathmandu, Nepal

<https://ehp.niehs.nih.gov/doi/abs/10.1289/isee.2021.O-TO-040> – 2021

Binaya Kc, Ashim Joshi, Roshan Ojha, Sudeel Kc, Raghav Sharma, and Bim Prasad Shrestha

Comparative life cycle assessment of conventional combustion engine vehicle, battery electric vehicle and fuel cell electric vehicle in Nepal

<https://doi.org/10.1016/j.jclepro.2022.134407> – 2022

Ashim Joshi, Raghav Sharma, Roshan Ojha, Sudeel Kc, Bivek Baral

PROJECTS

JUL 2022 – CURRENT

Computational Fluid Dynamics (CFD) Analysis of Graphene Nano-Platelets Induced Lithium Battery Cooling

JAN 2021 – APR 2022

Comparative Life Cycle Assessment of Fossil Fuel System, and Electric-Battery System and Hydrogen Fuel System via Hydro-Electricity/Electrolysis

JUN 2021 – JUL 2021

Case Study on the Mild-Steel Oxygen Cylinder Produced by Nepal Academy of Science and Technology (NAST)

2019 – 2021

Personal Exposure of PM 2.5 and CO on Various Modes of Transportation

APR 2020

Material Science and Hydropower Engineering: Need of a Book for the Importance and Correlation of Material Science in Hydropower Engineering

2018 – 2020

Thermodynamic Study of Fuel-Cell

2018 – 2020

Design and Static Structural Analysis of Electric Go-Kart

2019 – 2020

Structural Analysis of Carbon Fiber T700S Type IV Hydrogen Fuel Tank

2017 – 2019

Design and Fabrication of Electromagnetic Braking System

DIGITAL SKILLS

My Digital Skills

Programming Skills

Python | Matlab | C++

Engineering Software

CATIA V5 | Ansys | shapr3D | Sketch-Up | OpenFOAM | GMSH

Other technical Software

Wordpress | Latex Software | Microsoft Office

● **LANGUAGE SKILLS**

Mother tongue(s): **NEPALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user