



Ashim Joshi

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Kathmandu University road, Dhulikhel, 45210, Dhulikhel, Nepal

WORK EXPERIENCE

2014 – 2016 – Ilam

DELEGATE – NATIONAL HUMAN RIGHTS COMMISSION

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

2013 – 2018 – Ilam

PRESIDENT – ECO-CLUB, NCDC

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

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

2017 – 2020

VOLUNTEER – KATHMANDU UNIVERSITY SUPERCOMPUTER CENTER

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

FEB 2020 – NOV 2021

MEMBER – 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/>

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

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/>

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

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

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/>

● **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**

2015 – Biratnagar

Global Workshop on Recent Research Techniques

Organized by : Brainy Cube Nepal and Nepal Chemical Society

2017 – Itahari
IT BootCamp

2018 – Kathmandu University
First National Automobile Conference

2018 – Pokhara
GHOU`s First Asia Regional Conference

2019 – Online Based
Global Hands-on Universe Conference

26 FEB 2021 – Online Based
Diversity in Quantum Computing Conference

Organized by: Qubit by Qubit (QxQ)

24 NOV 2021 – 25 NOV 2021 – Kathmandu University
Third IAHR Asia Symposium on hydraulic Machinery and Systems

● **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

PROJECTS

2017 – 2019

Design and Fabrication of Electromagnetic Braking System

2019 – 2021

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

2019 – 2020

Structural Analysis of Carbon Fiber T700S Type IV Hydrogen Fuel Tank

APR 2020

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

2018 – 2020

Design and Static Structural Analysis of Electric Go-Kart

2018 – 2020

Thermodynamic Study of Fuel-Cell

JUN 2021 – JUL 2021

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

JAN 2021 – APR 2022

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

JUL 2022 – CURRENT

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

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