


# Ashim Joshi

 **Address:** Kathmandu University road, Dhulikhel, 45210, Dhulikhel, Nepal

 **Email address:** [ashim.joshi@hotmail.com](mailto:ashim.joshi@hotmail.com)  **Phone number:** (+977) 9851313894  **Website:** [ashimjoshi.com.np](http://ashimjoshi.com.np)

**Gender:** Male **Date of birth:** 27 Oct 2001

## WORK EXPERIENCE

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[ 2015 – 2016 ] **Delegate**

**National Human Rights Commission**

**City:** Ilam

**Main activities and responsibilities:**

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

[ 2014 – 2018 ] **President**

**Eco-Club, NCDC** <http://ncdcilam.org.np/>

**City:** Ilam

**Main activities and responsibilities:**

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

[ 2018 – 2020 ] **Volunteer**

**Kathmandu University Supercomputer Center**

**Main activities and responsibilities:**

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

[ Feb 2020 – Jan 2022 ] **Research assistant in university**

**Turbine Testing Lab & Green Hydrogen Lab, Kathmandu University** <http://ttl.ku.edu.np/>

**City:** Dhulikhel

**Country:** Nepal

**Main activities and responsibilities:**

- 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.

[ Mar 2020 – Nov 2021 ] **Member**

**IAHR-Asia 2021** <http://iahr-asia2021.ku.edu.np/>

**Main activities and responsibilities:**

- 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

[ Oct 2020 – Nov 2021 ] **President**

**Green Club of Thoughts at Kathmandu University** [www.gctatku.org.np](http://www.gctatku.org.np)

**City:** Dhulikhel

**Main activities and responsibilities:**

- 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

[ Aug 2021 – Current ] **Team Leader**

**Project Gridville** <https://iug.no/gridville/>

**Country:** Nepal

**Main activities and responsibilities:**

GridVille is a unique interdisciplinary project 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

[ Nov 2021 – Current ] **Advisor**

**Green Club of Thoughts at Kathmandu University** <https://gctatku.org.np/>

**City:** Dhulikhel

**Country:** Nepal

**Main activities and responsibilities:**

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

## PUBLICATIONS

[ 2021 ]

**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>

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

## EDUCATION AND TRAINING

[ 2018 – Current ] **Bachelor`s Degree**

**Kathmandu University** [www.ku.edu.np](http://www.ku.edu.np)

**Address:** Kathmandu University road, 45210, Dhulikhel, Nepal

**Field(s) of study:** Mechanical Engineering

**Main subject / occupational skills covered:**

Current CGPA: 3.85

## CONFERENCES AND SEMINARS

[ 2016 ] **Global Workshop on Recent Research Techniques** Biratnagar

Organized by : Brainy Cube Nepal and Nepal Chemical Society

[ 2018 ] **IT BootCamp** Itahari

[ 2019 ] **First National Automobile Conference** Kathmandu University

[ 2019 ] **GHOUS First Asia Regional Conference** Pokhara

[ 2020 ] **Global Hands-on Universe Conference** Online Based

[ 27 Feb 2021 ] **Diversity in Quantum Computing Conference** Online Based  
Organized by: Qubit by Qubit (QxQ)

[ 25 Nov 2021 – 26 Nov 2021 ] **Third IAHR Asia Symposium on hydraulic Machinery and Systems** Kathmandu University

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## PROJECTS

[ Jul 2021 – Jul 2021 ]

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

[ Feb 2021 – Current ]

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

[ 2020 – 2021 ] **Personal Exposure of PM 2.5 and CO on Various Modes of Transportation**

[ 2020 – 2020 ] **Structural Analysis of Carbon Fiber T700S Type IV Hydrogen Fuel Tank**

[ May 2020 ]

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

[ 2019 – 2020 ] **Design and Static Structural Analysis of Electric Go-Kart**

[ 2019 – 2020 ] **Thermodynamic Study of Fuel-Cell**

[ 2018 – 2019 ] **Design and Fabrication of Electromagnetic Braking System**

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## DIGITAL SKILLS

### Programming Skills

Python | Matlab | C++

### Engineering Software

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

### Other technical Software

Wordpress | Latex Software | Microsoft Office