

Avinash Kumar Jha

Siraha-16 District-Siraha,Nepal

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EDUCATION

B. Tech Civil Engineering | Delhi Technological University, New Delhi, India

Aug 2017 – June 2021

- CGPA 7.24/10

RESEARCH AND EXPERIENCE

Trainee Intern | Green Design Solution, New Delhi, India

Dec 2021-Jan2021

- Got a basic understanding of estimation and costing and project management working on three projects with a budget allocation of approximately 2 crores using Primavera P6 Professional.

Research Intern | Department of Civil Engineering, Delhi Technological University

May 2020-June 2020

- Guided by Dr. Ashutosh Trivedi on project “Vibration transfer to the retaining walls due to Traffic Movements”.
- Did a detailed analysis of the effects of road conditions and traffic on retaining walls and submitted a report to Dr. Ashutosh Trivedi.

Trainee Intern | Oil and Natural Gas Corporation, New Delhi, India

May 2019 – July 2019

- Worked as a trainee in ONGC, New Delhi, India under Ms. Jyoti Singh
- Completed training on “Study of Flow in Open Channel and Design Aspect of Sewage System”

ACADEMIC PROJECTS

Title: Applications of AI and IoT in Regional Planning and Infrastructure Monitoring

Oct 2020 – March2021

- This is a guided project under Dr. Ritu Raj, Dept. of Civil Engineering, DTU
- The paper titled “A Review of AI for Urban Planning: Towards Building Sustainable Smart Cities” was accepted in 6th IEEE International Conference on Inventive Computation Technologies (ICICT 2021)
- Further literature review is being done to explore the use cases of machine learning in anticipating infrastructure damage.

Title: Damage Detection and Vulnerability Analysis of Solids using Deep Learning

June 2020 – May 2021

- This is a B. Tech major project (12 credits) under Prof. Dr. Ashutosh Trivedi, Dept. of Civil Engineering, DTU
- The preliminary analysis using deep learning for crack detection of roads was accepted and presented in ICISS 2020.

PAPER PUBLICATIONS

- **A. K. Jha**, A. Ghimire, S. Thapa, A. M. Jha, and R. Raj, “A Review of AI for Urban Planning: Towards Building Sustainable Smart Cities”, 6th IEEE International Conference on Inventive Computation Technologies (ICICT2021), India (<https://tinyurl.com/urbanplanningpaper>).
- A. Kumar, A. Kumar, **A. K. Jha** and A. Trivedi, “Crack Detection of Structures using Deep Learning Framework”, 3rd IEEE International Conference on Intelligent Sustainable Systems, India **DOI:** 10.1109/ICISS49785.2020.9315949.

POSITIONS OF RESPONSIBILITY

Vice-Chairperson | INNOVA, the techno-management society of DTU

Oct 2020 –March 2021

Executive Member | Indian Association for Structural Engineers, DTU Chapter

Jan 2020 – June 2021

Branch Representative | Department of Civil Engineering, DTU

Aug 2019 – June 2021

- Elected for two consecutive years and worked as a liaison between students and teachers
- Coordinated with Department of Civil Engineering to solve the problems of over 130 students

TECHNICAL SKILLS

- SQL, MS Excel

- Software Used: AutoCAD.

ACHIEVEMENTS

- Was awarded Mahatma Gandhi Scholarship in high school

EXTRACURRICULAR ACTIVITIES

- Volunteered in various activities of Akshya Patra Foundation
- Maintained a blog (Togetherfortech.wordpress.com) on admissions and technology with 24k views till date

May 24, 2021

Avinash Kumar Jha
Bch Hostel, Bawana Road, Dtu 110042
Delhi
Delhi 110042 India

Dear Avinash Kumar Jha:

I am pleased to inform you that you have been accepted for graduate study at the University of Massachusetts Amherst. This acceptance is in the Master of Science/ Doctor of Philosophy program in the Department of Civil and Environmental Engineering. Congratulations!

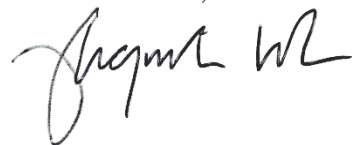
You have been accepted for the Fall 2021 semester. Unless your academic department agrees to postpone your enrollment, admission for any other semester would require a new application.

This admission is contingent on the completion of your baccalaureate degree. An official copy of your final undergraduate transcript indicating receipt of your degree should be sent to this office as soon as your undergraduate work is complete. You must submit this transcript before the University of Massachusetts Amherst will allow you to formally begin your graduate studies.

We encourage you to log in to SPIRE to accept this offer of admission or withdraw your application. After entering SPIRE, click on the 'Main Menu' item on the upper left hand side of the screen and select the 'Admissions' item. Then select the 'Student Center for New Graduate Students'. There is a confirmation status section that will allow you to inform the Graduate School of your enrollment plans. It is important that you log in and select one of these options within two weeks.

Questions concerning assistantships and other program related matters should be addressed to the Department of Civil and Environmental Engineering; other questions may be referred to the Graduate Student Service Center. For further information about the University of Massachusetts Amherst please visit our website at **www.umass.edu/graduate**.

With best wishes,



Jacqueline Urla
Dean of the Graduate School

cc: Graduate Program Director, Civil Engineering - Transportation Engineering