

# BHARTENDU KUMAR

Gender: Male

M.Tech – Transportation Engineering  
and Management

National Institute of Technology  
Tiruchirappalli, India

Linguistic Proficiency: English, Hindi

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## Educational Qualification:

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage/ CGPA
M.Tech (Transportation Engineering and Management)	2021	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	7.73
B.E (Civil Engineering)	2018	University Institute of Technology, Burdwan	Burdwan university	73.9
Class XII	2013	Kendriya Vidyalaya Muzaffarpur	Central Board of Secondary Education	88.0
Class X	2011	Kendriya Vidyalaya Muzaffarpur	Central Board of Secondary Education	93.1

## Project Work/Internship Experience:

- **PG Project: Route choice modeling of E-Vehicles in NIT-T campus**
  - NIT-T campus is a wide transportation network. Hence, a technical study on route guidance is felt important.
  - In this project, I coded the transportation network of NIT-T in the form of links and nodes.
  - Using travel impedance as the friction factor I assigned the routes by various assignment methods.
  - Important features like shortest route, diversion of traffic based on aesthetics factor were studied critically.
  - Dynamic assignment is done to study real time operational planning and to estimate the dynamic flow pattern.
- **UG Project: Experimental Investigation of Strength of Concrete by Incorporating Electric Tubes**
  - Since, the use of electric tube in building concrete slab is seen very often. Hence, a technical study on strength of concrete by incorporating electric tubes is felt important.
  - In this project, we prepared four samples by incorporating zero, one, two and three electrical tubes.
  - We found that the compressive strength of the concrete gradually decreases with the increase in number of electric tubes inserted in the concrete mix.
- **Winter Internship at Kolkata Metropolitan Development Authority:** Jan 2017 - Feb 2017
  - Foundation and piling training at MAA flyover and preparation of detailed project report.
  - Got insight to Safety Induction while working in field on Construction Project.
  - Came to know how bridges and foundations are designed.

## Areas of Interest:

- Transportation Planning
- Traffic Engineering
- Highway construction and Maintenance

## Technical Skills/Certifications:

- Programming Languages : C, C++, SQL
- Engineering Software : AutoCAD, STAAD Pro, SPSS, PTV VISSIM, PTV VISUM
- Software Packages : Microsoft Word, PowerPoint, Excel

## Experience:

- **Management trainee in QMS at JMC Projects (India) Ltd. : Oct'21-Present**
  - Working under the project “Construction of four lane elevated corridor and ground level improvements from Pandiyan hotel junction to Madurai natham junction in the state of Tamilnadu”
  - Major responsibilities are categorized into three areas :-
    - (i) Structures :- Foundation, Pre-Casted segments, Gluing, Stressing, Spherical bearings, Grouting, Retaining wall, I-Girder, deck slab and solid slab.
    - (ii) Road Work :- Embankment construction, Subgrade preparation, Field density test, GSB WMM and DBM laying, Core cutter test and BC laying.
    - (iii) Laboratory work :- Tests on cement, sand and aggregate and the other incoming materials for construction as per ITP, Tests on bitumen, Tests on soil and checking the strength of cube samples obtained from concreting, grouting and gluing from site.

## Academic Achievements and Co-Curricular Activities:

- Participated in 13<sup>th</sup> National Youth Parliament Competition conducted by Ministry of Parliamentary affairs, Government of India.
- Participated in Bridge designing using ice-cream sticks in UTKRISHT-2015
- Won 1<sup>st</sup> prize in English debate conducted at Kendriya Vidyalaya Muzaffarpur in 2010.

## Extracurricular Activities:

### *Positions of Responsibility:*

- Class Representative for my Under graduation.
- Mess Committee member at U.I.T Burdwan.
- Hostel Representative at U.I.T Burdwan.
- Student Representative in mess committee at NIT Trichy.

### *Social Activities:*

- Member of Literary club at U.I.T Burdwan.
- Donated to PMCARES fund for COVID-19.

### *Cultural Activities:*

- Cleared level 1 of dynamic leadership at "Chiron Toastmaster's" at NIT Trichy.
- Secured 1<sup>st</sup> position in the group dance event at Kendriya Vidyalaya Muzaffarpur in 2007.
- Completed Pravesh sopan test of Bharat Scouts and Guides.

### *Sport Activities:*

- Represented Kendriya Vidyalaya Muzaffarpur Cricket team in 2009.
- Represented U.I.T Cricket team in 2017.