

Statement of Purpose

Name: Binay Thakur

Department Applied: Civil Engineering

Areas of Specialization Applied: Structural Engineering

Education qualification of an individual is one of the main reason of his/ her success. Since school days whenever I used to see bridges, buildings, highways being built and made, I always imagined myself being there on a field as a civil engineer. The people in white helmet, designing such a huge structure, highways and solving various complex problems there then on site have always motivated me to be civil engineer. After my high school, I was very fortunate that I was shortlisted for a scholarship to pursue Civil Engineering in Nitte Meenakshi Institute of Technology (NMIT in Bangalore, India). In my 4 year of engineering course, I studied various subjects like Strength of Material, Structural Analysis, RCC, Transportation Engineering-1, Transportation Engineering-2 etc. These courses are the foundation pillar of civil engineering and I enjoyed studying these subjects in depth. These subjects helped me to understand the concept of civil engineering and fill in many voids of queries and doubts. But I still think my knowledge are basic and are not sufficient to make me a complete Civil Engineer. That dream of mine designing, analyzing and building bridges, sky scrapers, highways across the globe is still miles away from me. I need to study M.Tech to further enhance my UG knowledge and specialize myself in a particular sector.

I have participated in 'Bridge Master' competitions and won 1st prize in 'Anaadyanta-2019'- National level competition organized by my college. This cut-throat competition that pushes participate to acknowledge fundamental civil engineering concepts and utilize them to build reality was truly a great learning experience. The learning experience continue when I was selected to represent my college in competitions organized by some other engineering colleges. I am member of some Civil Engineering Association like 'Indian Concrete Institute', 'Association of Consulting Civil Engineering (India)'. Attending the seminars organized by these association helped me to consolidate my conceptual and practical understanding of relevant subjects learned during my engineering classes. I along with my 2 other friends carried out 'safety audit of NMIT (my B.Tech college) road' for nearly 7.5km by using Total Station. This practical work gave me a chance to boost up my engineering knowledge.

I was very fortunate to be selected for 6 weeks internship in one of the government office in Nepal 'JeetpurSimara Sub-Metropolitan City'. I assisted leading civil engineer in designing of Municipal building being built in Province2. I learnt how the floor plans are made and how structure are analyzed through software like ETABs. The most exciting things was how different loads are assigned and structure is checked whether it is safe or not for construction. It really

tickled the civil engineer inside me when I finally drawn the columns, beams and footing from the data of ETABs. The designing and analyzing work prior to construction work is very responsible work. It was great learning experience for me and motivate me to learn and thrive for more in the field of Structural engineering.

In March 2020 A.D (Covid-19 lockdown) when I came to Nepal from India, I got opportunity to work from home in a designing company 'Preesha Engineering Services Pvt. Ltd, Biratnagar, Nepal'. Since then I worked for 1 year as a designing and valuation engineer where I designed some residential buildings and did valuation of some lands. This work uplifted my structural information and made my theoretical knowledge crystal clear at some range.

Higher education like post graduate surely helps to grow in a career and doing it from IITs is definitely dream of everyone. It is no doubt that IIT Kharagpur is a prestigious institution in India which has the best faculties in the field of civil engineering. Under guidance of Associate professor Amit Shaw, Professor Damodar Maity, I will definitely broad my engineering knowledge and will be able to solve real world problems. I am sure if I get opportunity to pursue my M.Tech in IIT Kharagpur, it will definitely boost up my career.

Doing M.Tech from IITs has always been in my mind throughout engineering, for which I have always kept my academic performance very strong. I was consistently ranked among top 2 students in department and I was among regular and disciplined students. At the end of 4 years engineering, I was 2nd topper with 9.45 CGPA in the civil department. Apart from engineering, I was also academically good student in school and high school. I was school topper in class 10 board exam and was among top 5 students in my high school. I am sure that I will meet the standard set by civil department of IIT Kharagpur and make you feel proud through my contribution.

Hope to be the part of this great institute.