

Statement of Purpose: **SUJAN PAUDEL**

If we walk down a highway, everything that we see that is man-made, Civil Engineers probably had a hand in designing it. To a boy who spent his childhood in a rural area, the thought of being able to design and construct huge and artistic buildings was invariably fascinating and indulging. The strong desire to leave behind a mark of myself in the form of a magnificent structure, sparked in me the interest to study civil engineering and have a deep understanding regarding the working mechanism of structures.

After I graduated from High School, I set out on my journey to study engineering however, I needed to get past my entrance exam to get admission into prestigious colleges. With hard work and strong commitment, I was also able to enlist myself into the merit list of the COMPEX scholarship scheme given by the Indian Embassy to study civil engineering at BMS College of Engineering, Bangalore, with a full waiver of tuition fee, food and accommodation. BMS is one of the oldest private colleges in India with an extremely distinguished faculty and excellent industrial exposure which encouraged me to pursue my engineering degree.

During my year as an undergraduate student, I was exposed to different subjects, worked on many projects, and engaged in various lab works. We had a highway lab, material testing lab, concrete lab, soil lab, survey lab, etc. My favourite among all was the Concrete lab as I was able to engage with it for two semesters during my Concrete Technology and Advanced Concrete Technology (ACT) course. I learned about the fresh properties of concrete and conducted various strength tests as well. During my ACT course, I was taught about the preparation method of Self Compacting Concrete and work out its fresh properties and compare it with EFNARC (European Federation of National Associations Representing for Concrete) Standards. It was during the concrete lab work that I began to boost interest in research works.

I was also involved in many cultural activities as a volunteer. I took part as a volunteer in BMSCE phase shift, a technical event, from Civil Department. Every year I used to volunteer for NIRMAAN, International Civil Engineering Student Symposium, as junior coordinator which eventually led me to work as a member of organizing committee during my final year when the final year students get to conduct the event.

My final year project was entitled "Analysis and Design of Seismic Resistant Structures" where we had considered a building of B+G+7 storey which was analyzed using ETABS software under numerous load combinations. Later the ductile detailing of various structural components was done in AutoCAD using relevant IS codes. I was able to maintain a strong academic profile throughout my undergraduate course such that I was awarded with a certificate of merit in recognition of good academic performance for scoring the highest CGPA in the 6th semester.

My strategy for master's study shall be to use my knowledge in a more specialized way and acquire the skills used for research. My field of interest in Civil Engineering is structural engineering which has a lot of further research potential in the future. I wish to explore advanced topics in structural engineering and its related fields, as well as upgrade my understanding of the working methodology in research works so that it can pave way for my doctorate degree. Upon the completion of the program, I would like to work for the research and development department of a company to create a solution for structural problems that arise during the construction and designing of buildings. After acquiring professional experience, I believe I will have obtained the skills essential to continue my education with a Doctoral degree. In the future, I aspire to be recognized as an expert in my field while being engaged in the teaching profession educating students both academically and professionally.

For a student who completed his engineering from India, IIT Kharagpur needs no introduction and so do my reasons for applying to it. I believe what your university seeks, in a prospective student, is an attractive academic background and the exceptional will to execute and deliver. I am confident that I will be able to meet the high standards set by your institution.

Thank you for considering the application.