

Statement of Purpose

After four years of undergraduate study in Civil Engineering, I feel completely satisfied with my decision to choose engineering as my career option as it has revealed the most pragmatic and down to earth approach to tackling human problems to me. My enthusiasm coupled with scope for innovations and opportunities available in the field of Civil Engineering has motivated me to opt for higher studies and contribute to the field through meaningful research. I sincerely believe that pursuing post-graduation at one of the prestigious university in **India, IIT KHARAGPUR** at this juncture of my career will be an ideal step in this direction.

As an undergraduate, I was given the chance to explore numbers of different fields in civil engineering such as structural, geotechnical, transportation, environmental and water resources engineering. Having to take the courses from each of these fields, I realize that Structural engineering is the branch of civil engineering that I find most interesting so i chose to take all of the available design courses related to this area, such as mechanics of solid, structural analysis, design of reinforced cement concrete, design of steel structure for my undergraduate study. I had worked diligently these past four years to fully understand, and master the concept of these subjects. Moreover I worked on **FRAGILITY CURVE ANALYSIS** on **RCC BUILDING** as my final year project with help of **ETABS** software. During my under graduate course I was a member of **INDIA CHAPTER OF AMERICAN CONCRETE INSTITUTE** where I had attended several workshops and seminars.

At my third year of engineering, I was hired by **ALPHA ENGINEERS & VALUERS** a construction company in **Rajkot, Gujarat**, as an engineering intern. As an intern, I was assigned under the design department where I was exposed to designing of dam of forest department, supervision of residential and social building etc. During my time of internship, I learned a lot about the design of the specific part of the building including the design of pre-stressed concrete beam, seismic load isolation system and the structural design of the deep pile foundation. At the same time, I was given various tasks including site investigation, resources estimation, and scheduling.

I want to add that I have completed my undergraduate program from **MARWADI EDUCATION FOUNDATION** affiliated by **GUJARAT TECHNOLOGICAL UNIVERSITY** through **ICCR Scholarship** program provided by **Indian Government**. After staying four years in India I have learnt Indian languages like **HINDI, GUJARATI** which will help me pursuing my post-graduation program in your prestigious institute.

After earning my master's degree, I intend to work with in my home country **BANGLADESH**, in government sector as a civil engineer. I wish to work as a professional Engineer which will guide me in pursuing my goal of being a difference maker. This way, I believe I will be able to apply everything I learned from my undergraduate and graduate studies, and finally be able to contribute to the society.

PROBOR DEY