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STATEMENT OF PURPOSE

Dear Sir/Madam,

I am utilizing this opportunity of introducing myself to support my application. When I put my eye through the curriculum of M. Tech. in Mechanical Systems Design provided by Institute of Technology, Kharagpur, I found that my interest and passion match on it very well. I am writing this with much hope that academics carried out here would provide great uplift to students and thus society, especially to foreign students from a developing nation.

Technology and innovation related TV shows have always influenced my curious mind since childhood to till today. Dismantling devices and repairing if possible, used to be my major childhood missions to understand the mechanism and technology inside those devices. Apart from curiosity, I was even imaginative and sensitive since childhood. My introverted personality has always encouraged my right side brain to put eye and hands in handicrafts, painting, sketching, photography and so many such art and craft works. I performed excellently on my School Leaving Certificate (SLC) exam. While in high school, mathematics and physics were my major, which catalysed my dream of engineering. I have completed Bachelor's Degree in Mechanical Engineering from Institute of Engineering, Thapathali Campus under Tribhuvan University.

The four years of engineering provided me basic knowledge of core subjects like Machine Design, Computer Aided Design and Simulation, Engineering Drawing, Control System, Manufacturing Technology, Mechanics, FEA, etc. I have always been an enthusiast of robotics and automation. Joining Robotics and Automation Center (robotics club) of my campus during undergraduate made me fulfil my intense dream of designing and fabricating new things, especially robots. It was then when I led a team of some seniors and juniors to design and build a robot, which was economically built from scrap with a task to light an oil lamp using a scissor jack mechanism, during my campus' golden jubilee program. Belonging from a developing nation, involving in robotics club has also taught me designing and few problem solving skills during scarcity of materials, machines or tools. Involving there gave me an opportunity to participate in International Robotics Challenge at IIT-Bombay (India) which again showed me some competing international level mechatronics projects (robots) and thus my potentials to that field. I easily get habitual with computers and technology since school level, and I am very much interested in CAD, CAM and CAA which made me learn SOLIDWORKS, Catia and ANSYS on my own using tutorial videos. This again efficiently made me engage in training programs of SOLIDWORKS and Catia as main tutor during 'Robotics Week' on my campus. Belonging to a developing nation, I feel that I still miss the proper guidance and mentoring from a skilled person relating all these stated fields.

My internship at Balaju Yantrashala, Kathmandu has made me familiarization with mechanical design and manufacturing mechanical systems/components along with real life problems on them. Again fabricating our bachelor level final year project titled ‘To Devise Manual Stair Climbing Wheelchair’ on our own has made us learn few design, fabrication and analysis skills relating different mechanisms, significantly teaching effective communication and coordination among team members.

After that, I got engaged in Bosc Foundation Pvt. Ltd. where I perform tutoring regarding the practical teaching/demos of Science subject and supervising students of school in their science projects in secondary level of about fourteen different schools. This again taught me that I can utilize the techniques to effectively and efficiently impart hands-on education to students. I have felt this has upgraded my personal and professional skills in teaching and inspiring field. Presently, I am working for a machine design and manufacturing company named ‘Machine Hub Nepal Pvt. Ltd.’ which deals with interlocking brick machine, agro-machineries, Allo (Himalayan Nettle) processing machine. Since I am responsible for digital prototyping, material and cost estimating, of all the machines the company sells, I have been able to handle large assemblies and create engineering and working drawings efficiently and effectively in SOLIDWORKS. But again I am still missing the crucial part of designing process which is ‘the analysis part’ and ‘the aesthetic part’ which has given me some rays of hope that studying M. Tech. at IIT will surely help me achieve or fix those broken parts.

I again want to make you realize that I’m keenly interested in the program M. Tech. relating all my experiences and interest. After completing the degree, I wish to work in the field of industrial design and design for manufacturing of automation for mechanical systems especially electric vehicles and mobility, which I hope, would further help to fill the gap of lacking specialist at my home country. With all these stated experiences, passions and needs, fulfilment of the program objectives are never hampered by selecting me. Your time and consideration to this application are appreciated and I look forward for your acceptance.

Sincerely,

Sarozh Maharjan