

Statement of Purpose

An enormous number of challenges, thrown out by rapid development in **science** and technology, have made me choose engineering profession. I take this opportunity to describe my educational background and career objectives that motivated me to pursue a research career in mechanical engineering. I completed my higher secondary examination scoring 96% in basic sciences. My undergraduate education has provided a thorough exposure to the various specialties available in Mechanical Engineering, thus stimulating interest in advanced research.

In my undergraduate years, I've acquired a strong background in the fundamentals of the basic mechanical engineering subjects like Thermodynamics, Heat and Mass transfer, Solid Mechanics, Fluid mechanics, CAD/CAM, Mechanics of Machines, Design of machine elements etc. I have also had an introduction to specialized areas like Finite Element Techniques and Operations Research.

Thermal and Fluid Sciences has captivated my interest during my undergraduate study and in relation to that I had also completed a project namely " Coal Water Slurry as an auxiliary fuel for oil " in boilers at Bharath Heavy Electrical Limited (B.H.E.L.) in collaboration with National Thermal Power Corporation, Central Fuel Research Institute & I.I.T.-Madras. I would like to pursue graduate studies in specialized Thermal fields like Combustion, Heat and Mass Transfer, Computational Fluid Dynamics in a committed manner and I am confident of contributing considerably to the growth of this field. A coin has two faces. Similarly in my view, I feel that extra curricular activities are as important as studies in estimating a person's overall capacity. As a chess player and volleyball player representing the university, I am in a position that many athletes would covet. Another exciting and learning phase at the university had been my experience as an executing member of mechanical Engineers (Tirumala University). I am the Vice President of the LEO club of Tirumala University. I feel that I have evolved into a dynamic person due to my commitment to many extra-curricular activities at the highest level.

Browsing through the information brochure and the University's home page I feel that the Graduate Study at the Western Michigan holds a lot of promise to me. The breadth and depth of the courses coupled with a stimulating research environment seem to me the right mix for seminal work and pioneering research.

I sincerely hope to have a mutually beneficial association with your University to contribute my best towards making a successful research endeavor. Keeping this in mind, joining your University seems to me as an excellent first step. Thanks for your consideration.

KARAN LAL

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