

Statement of Purpose

Dear Sir,

In August 20 , I completed my undergraduate degree Bachelor of Engineering (BE) in Mechatronics at University. As a student in the BE Mechatronics program I studied a well interdisciplinary combination of various courses related to Electronics, Mechanical and Computer Engineering. Besides curriculum I had always an inclination towards the practical implementation of the concepts gained through different courses. I designed a after studying Basic Circuit Design Theory and Electronics courses. Later, I designed a for Machine design course. After that, in Applied Mechatronics course I designed a , using photo-transistors, H-Bridges, and 8051 microcontrollers. I have learnt a lot about designing, sensors and actuators interfacing with controllers during the implementation of these projects. Then I worked on the designing and fabrication of the using , as my final year project for BE Mechatronics degree. During semester breaks I worked as an Internee Engineer with where I learned various manufacturing, testing and processing methods including , , , and . As a student, I find myself consistently engaged with the intersection of mechanical designing, automation through sensors and controllers and prototype development.

After completing my BE degree, I started working for a company that dealt in . I got hands on experience on different types of and using application specific service mode software. Besides that, I also got a training on one of the fully automated manufactured by at Training Centre , where I evolved my troubleshooting skills for automation systems. While working with my interests towards this field increased exponentially and I started developing a feeling to pursue higher studies and work towards the design and development of these systems.

Therefore, I started my Masters (MS) in Mechatronics Engineering from . I studied courses like advanced manufacturing design techniques, advanced robotics, advanced embedded systems and biomedical instrumentation. I started studying papers on and other articles related to for research purpose and I found that I can implement my concepts of Mechatronics towards the design and development of . Hence, I opted for a based topic for MS thesis, which was comprised of signals acquisition from and classification of against , features into .

I published my thesis work in a peer-reviewed journal named in December and later, I also worked with a fellow student on the and control of using , and interface. The project was implemented successfully

and published in the peer-reviewed journal in January . After that I started working on the results achieved in my thesis and published my work in the IEEE sponsored International Conference in November . In April , I completed my MS degree in Mechatronics but I never stopped learning and working on projects relating to design and development of biomedical instruments, I started assisting another fellow student with a designing of a using and . The project was implemented successfully and the paper titled has been accepted for publication by the IEEE sponsored Conference.

My future plans are biased towards the designing and development of . As in my MS thesis I worked on the and now I want to pursue this project towards the final stage which includes the designing of . The knowledge which I have gained in my BE degree, professional experience, MS degree and the research work would help me in achieving my desired goal.

Last but not the least, key traits in my personality include highly motivated, confident, energetic and result oriented nature acknowledged for integrating creativity, teamwork as well as potential to work independently in order to yield optimized solutions.

In a nutshell, considering my passion to gain knowledge and implement it practically, I am confident that I will be a valuable asset to your institute and will be looking forward for a positive response.

Thank you in anticipation.

Yours faithfully,