

Statement of Purpose

Increasing demand for qualified professionals combined with a lack of professionals with the right technical skillset in the Automation industry presents a great opportunity to build a career in the industry. A career in Mechatronics Engineering seems to be one of the most vibrant and exciting careers options available today. My keen interest in the field, coupled with my experience in automating the comfort of users present inside the car cabin provides me a great motivation to take myself to the next level. Pursuing the Master Course in the field of Mechatronics Engineering from British college would greatly help me to accomplish my career goals of becoming an innovative and successful engineer within the ever-growing industry.

My interest in Engineering developed during my early school days. I have always been a person who wanted to know how things work. I always loved to dismantle machine and gadgets to see what is inside them, sometimes I could put them together but mostly I could not. I have always jumped at opportunity to work with some electronic components. I pursued my Bachelors of Engineering from Mediacaps Institute of Technology and Management. During my Bachelor degree I teamed up with fellow students to create a **Burglar alarm based on an InfraRed Receiver**. It functioned in the following way :

as humans our body has to maintain a certain temperature for proper functioning of internal organs, in order of doing so it emits heat in the form of InfraRed radiation which is captured by the receiver we had installed onto the circuit board. On receiving this radiation the receiver produces a high signal which was in turn transmitted to a sound IC. This IC on receiving a high signal used to produce loud sound which alerted the owner about any suspicious activity. Other than that I have had several hands on with Timer IC(555) and Op-Amp IC(741). I well aware with the process of creating circuit layout which is followed by etching, drilling and then finally soldering.

In addition to the courses that I have taken in my under-graduation, I have been quite active in participating in extracurricular activities and working on projects to inspire myself and broaden my perspectives. For instance, I had organized an event called "Innova-10" and handled marketing in college's Media Festival event. It allowed me to learn and apply organizing and management skills in the real world. I also represented my school cricket team in several inter-school tournaments and have taken part in various mathematical and physics Olympiad.

After graduation from college, I started working as a system engineer in **Tata Consultancy Services** (TCS), India's leading MNC. I worked with **Ford Motor** where my team was dedicated for Climate Control Module (CCM). I worked to automate the comfort of users present inside the car cabin through an HVAC system (Heating, Ventilation and Cooling). I was responsible for accurate blending of air of different temperature to achieve the desired

temperature inside the cabin. Along side blending I also worked on the Compressor present in the HVAC system. The Compressor is responsible to cool down the air inside the cabin as per required comfort level, I worked on different logics which in turn helped to Compressor to maintain a certain temperature . Also in certain situations the temperature had to be maintained at a bare minimum level to stop its core from freezing which could increase the load on engine and/or inflicting permanent damage. I worked on **MATLAB** models to work on this logic for such actuators and motion doors.

Now, as I consider my alternatives for post-graduate studies, a Masters in Mechatronics Engineering at the British University has emerged on top for various reasons. The interdisciplinary way of the program is particularly appealing to me, as this will give me a much more extensive understanding of all major concepts of Mechanics as well as Electronics, including hands-on experience in planning, developing, executing, and evaluating projects. The exposure to cutting edge technologies and the latest trends is one of the main fascination for me.

During my bachelor's degree, I had the privilege to learn skills like Creativity, Research skills, Communication skills, Analytical skills, Interpretation Skills, Problem Solving Skills, Observation skills, Interviewing Skills, and Networking skills, etc. I am confident of adding to the paradigm, the diversity of the applied Production industry by joining the British College for my post-graduation.

The program will surely substantiate me with the right acquaintance, dexterity, and practice to accomplish my professional goals. Working with the highly experienced and skilled faculties, along with the world-class campus facilities, will surely back me in my academic pursuit. With the knowledge and skills that I would gain from the program, it will enable me to pursue a professional career in the Automation Industry.

UK was the first and final choice for me when I was in a phase to choose a country for my post-graduation because of some straightforward reasons. The education system of UK is brilliant in all sorts of ways and ranked among the best in the world. In addition to that, UK is a safe and peaceful nation with superb health care facilities .All UK institutes provide a dynamic, innovative and challenging environment in which one can create and nurture their true potential. UK qualification will surely be a strong base for boosting my career and building my future. Every year, talented students from all over the globe come to UK to study so that they can make their dreams come true. Studying with them will surely expose me to their cultures and ethnicities, as well as help me improve my communication skills. Also, UK has a rich history which is reflected everywhere in their modern society. UK is one of the most wel coming countries with a vivid population composition. A multi cultural country which makes everyone feel at home.

After completion of my Masters in UK I intend to work in UK with the acquired skillset and join a good Industrial Automation and Production Company for sometime to understand the

technology and corporate. I plan to return back to India after my PSW opportunity and want to work in Siemens, India in Telangana, Hyderabad. In the end, my goal is to be a successful and dynamic professional in the future. I always had dreamt about working in my Dream Company and with the right skillset and right knowledge, I am really confident that i will be contributing to the Indian Economy and will be able to make a significant development towards society

I sincerely hope that this statement has helped you see me as someone who is in pursuit of great learning experience. In conclusion, I would like to say that I am really looking forward to the personal and academic challenges that studying at your university will bring. I promise to be an alumnus worth having, if given the opportunity.

Thankyou.

Sincerely,

Abhinav Vyas