



#4-Sample of Aerospace Engineering SOP

Fire, the wheel, boats, book printing, electricity, engines, automobiles, planes, spaceships, wireless information transfer: engineering is determining this progress. Leading engineers are the creators of our future. I find it a challenging aim to become one of them and to design a world for future generations.

Looking back on my childhood, I always found myself interested in problem-solving. Puzzles and constructions of any sort were my favorite toys, especially the ones suitable for older children. This interest has been growing with time. Understanding the working process of any machine, from cattle to spacecraft, has always led to a unique experience that satisfies my interest.

The borders of my imagination about how far technology can go grew, even more when I attended my first Physics lesson in secondary school. In Ukraine, I took third place in the Physics Olympiad's national (furthest possible) stage in year 8; I also had several achievements in other years at Physics and Mathematics Olympiads. I am doing an Extended Essay in Physics investigating the effect of magnetic braking by eddy currents.

During my life I have been fortunate enough to travel a lot and visit various technology-related places, which have shown me a spectrum of engineering possibilities. I have been to CERN in Switzerland, exploring the limits of particle physics, and to the Volkswagen Phaeton factory in Dresden to see how an automated plant works.

I have visited a submarine maintenance plant in Sevastopol, where I saw engineering applications in the military, and I have been to a local woodworking factory, where I discovered the use and need of modern technologies for small, developing enterprises. I have also got an outstanding opportunity to have a week of work experience at an industrial factory in Ukraine, where I will look at engineering from a different perspective and get a deeper and more specific understanding of manufacturing processes.

As a consequence of that variety of different engineering possibilities, I have found myself devoting more of my interest to aerospace engineering in particular. The first reason for that probably was that for half of my life I have lived near the largest airport in my country, every day waking up and going to bed along with planes landing and taking off.

As well, I have had another source of inspiration, reading. Starting from a variety of science fiction books, where space travel always seemed to me the most exciting, I eventually asked myself about the actual physics of the processes, and so I began to read more scientific literature.