

## COLLEGE PERSONAL STATEMENT: MECHANICAL ENGINEERING

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### **Personal Statement: Mechanical Engineering**

My interest in Mechanical Engineering stems from my innate desire to determine how objects and concepts operate and find the most elegant solutions to the challenges of form and function. This profound curiosity, coupled with the pleasure and reward of studying Mathematics and Science, has made me increasingly conscious of the personal fulfilment that a career in engineering will provide.

This ambition is motivated by my intellectual curiosity and enthusiasm for all things mechanical. The study of Mechanical Engineering will allow me to apply a wealth of mathematical tools and scientific ideas in a practical context. Addressing real-world issues with the skills and expertise provided by this course will allow me to play a vital role in developing solutions to challenges of economic and social progress faced by emerging countries. My career choice is informed by my desire to be challenged by, and extend my enjoyment of, Mathematics and Physics. My analytical abilities have improved as a result of studying these subjects, alongside Chemistry, for A-level, and I believe they have prepared me well for the demands of undergraduate study.

I found specific topics on mechanics and material physics particularly appealing; the study of the principles of momentum, forces and energy has led me to understand how nearly everything we encounter in the observed universe is underpinned by concepts that can be explained through the application of the laws of physics. I have come to rely on mathematics as a discipline that enables me to solve novel difficulties by using various problem-solving strategies in a wide range of contrasting scenarios. Implementing chemistry principles in real-life situations helped me see the world through different eyes.

In both 2019 and 2020, I participated in MUN conferences. As a result of these experiences, I acquired several critical transferable skills such as leadership, research, writing, public speaking, problem-solving, negotiation, conflict resolution and the value of teamwork. I have always been fascinated by vehicle design, and I love learning about new projects like

levitating trains or the HS2 build. In the summer of 2019, I also completed a 20-hour online course in car mechanics and their fundamentals, educating myself more fully about engines and mechanisms. I carry out regular reading and research to ensure that I am well informed about contemporary challenges in mechanical and civil engineering, and consequently I am frequently inspired by the ways in which engineering principles allow us to build the impossible.

I am looking forward to developing my understanding in this field before exploring career options ranging from work in the automotive and jet engine sectors to emerging areas like nanotechnology.

Tomorrow's engineers will play a role in designing and innovating solutions for an increasingly demanding world, inspiring me to contribute to projects such as windscreen-less cars and trains capable of travelling at speeds beyond 400 Kmph. I have a sound foundation of relevant academic knowledge; I can think originally and am always eager to learn new ideas and concepts. I believe that this, and my ability to work well under pressure, will prove invaluable in the field of engineering, enabling me to recognise the need for both reflection and urgency when making decisions in uncertain circumstances. My ability to think on my feet and show resourcefulness will be advantageous at university and in the field.

I am used to living and studying away from my family and country of birth and am confident I will adapt quickly to university life in the UK. I intend to obtain an invaluable education, allowing me to grow intellectually and socially before beginning a successful career. I aim to exceed my expectations and contribute to the betterment of our global society through the discipline of Mechanical Engineering.

