# Profile

A positive, focused A-level student, I am looking for real-life experience to apply the knowledge I have gained through school. I have acquired many invaluable qualities such as determination, initiative, reliability and leadership through my work experience at the Nuffield Research Placement and volunteer work in teaching Punjabi. Through my extended project qualification (EPQ) I have learnt to balance multiple competing priorities, having had to complete a year long research project whilst revising for exams and achieving strict deadlines for submission of assignments. I have a keen interest in engineering and I am looking forward to working in an environment that allows me to apply and expand my knowledge. I have a confident and optimistic personality and am competent technically and analytically, with a diligent frame of mind. I am approachable and friendly, very organized and resourceful, known to be cooperative and a good listener.

I am an enthusiastic and dedicated student with strong communication skills and a high-level of commitment to achieve excellence.

# Work Experience

**Jaguar Land Rover** October 2018

I completed a four-day placement where I took part in team-building exercises and was put through a series of psychometric, numerical, verbal and non-verbal tests similar to the application process that their applicants go through. I learnt how to present confidently; we were set atask as a group to come up with a way to update any of their vehicles. My idea was that customers could up spec their cars by adding electrochromic windows where they could control the tinting of the windows. We then presented this idea to a panel of judges from jaguar land rover. It wasdaunting but my team performed well and we came first. This taught me to be confident and enthusiastic. To engage with the audience, I used humor, this was picked up by the judges and helped to relax the atmosphere and put people at ease. This was a valuable experience providing me with a great deal of information for the future.

**Nuffield Research Placement** July 2018 – August 2018

I successfully passed a stringent assessment process and was one of a handful selected across the West Midlands to take part in this placement. I wrote a research paper on the thermal conductivity of nanofluids and its’ uses in renewable energy. This experience enhanced my problem-solving skills, time management and exploring how science is advancing solutions for current problems. To present an analytical perspective in my dissertation I used MATLAB, software that allows you to simulate and create a model that predicts outcomes based upon mathematical algorithms and formulae.

**Anti-Bullying Ambassador**  Oct 2017- Present

I was appointed as an anti-bullying ambassador at my school where I learnt to empathize with students no matter their age. I furthered my communication skills through assemblies delivered to the whole school.

**EPQ** Sept 2017 – Nov 2018

In my EPQ, I decided to build a hydraulic arm. This fascinating project has allowed me to delve deep into how far science has advanced in this area and the direction it is going in the future. I chose this topic because of my interest in studying engineering; I focused on the mechanics behind technology and how different materials can make up one amazing piece of machinery. I was captivated by the physics behind the hydraulics that I was using to power the arm. The planning process is where I learnt the most: I balanced the planning of the associated essay as well as calculating equations; designing and building the artifact; whilst also making sure that I met deadlines for separate parts of the project. It was critical to spot these errors before they became a larger problem. An example of this was that I had to ensure I had mathematically worked out the dimensions correctly, as an incorrect calculation could mean that during the building process, I would have to start again resulting in a waste of materials and time.

**Volunteering as a teacher** Feb 2016 – August 2016

I taught my own small class consisting of a range of ages due to people starting the school at different times. This required me to prepare differentiated lesson plans so that the work given was engaging for all the class. It gave me the opportunity to interact with younger age groups and made me think on my feet and to be prepared for whatever may happen: new people joined the group that didn’t know as much, or the whiteboard wasn’t working so the kids couldn’t do the activity I had planned. I learnt how to adapt to the situation using my initiative and resourcefulness: to use what was available, this was often a challenge, however it is this challenge that made it enjoyable as I was able to solve problems by thinking creatively whilst also being able to impart my knowledge about my culture and language to the next generation.

**NHS Heartlands Hospital** July 2016

I undertook a week placement at NHS Heartlands Hospital where I was introduced to many medical professionals and shown how each team within the hospital had their own jobs to complete. It was fascinating to see how each department worked together to diagnose a patient.

# Education

**Sport’s Leadership:** Level 1 and Level 2

**English Language – Spoken Endorsement:** Distinction

**GCSE’S:** Physics (A\*), Chemistry (A\*), Biology (A\*), Mathematics (A\*), English Literature (A\*),

English Language (A\*), History (A), Punjabi (A), Computing (B), French (B), Textiles (B), Drama (C)

**AS level** in Punjabi (A)

**Predicted A- level results:** Physics (A), Chemistry (A) and Mathematics (B)

# Referees

**Name**

**Head/ Head of 6thform**

**King Edward VI Handsworth School s**

**name@gmail.com**

**Mr Name**

**Head/ Head of 6thform**

**King Edward VI Handsworth School s**

**name@gmail.com**