Science, as we see it in its final form, is mostly results which can be derived using a set of basic assumptions, which conform to experimental findings. However the process through which these were discovered/invented, the unseen human effort behind it, is what I wish to explore through this opportunity.

My basic area of interest is physics, and quite frankly, I haven't even studied most of the broad topics to be able to narrow it sufficiently to a research level problem. I am interested in Quantum Mechanics, Cosmology, Relativity and Computing. Mathematics is just as close to my heart, and studying topics like Linear Algebra/Group Theory, Symmetry, Differential Geometry has been very enjoyable for me. I got especially interested in Quantum Mechanics and specifically Quantum Computing, after attending a seminar on the Nobel Prize for Physics, 2012, which had its basics rooted in Quantum Entanglement. To be comfortable with Quantum Mechanics, I spent my last summer studying "Linear Algebra" by M. Artin, till Chapter 7. This winter I started "Modern Quantum Mechanics" by JJ Sakurai, to make the counter intuitive subject, a comfort zone.

I have experience with, and have completed various projects using C/C++, Python, PHP, SQL, Basic and Javascript. I have also worked with microcontrollers (8051 and AVR). I now wish to apply these skills and learn more to work on Experimental Quantum Mechanics and Computing.

In summary, I wish to do experimental work and/or theoretical study with mathematical rigour, in areas related to Quantum Computing and Mechanics.