**Statement of Purpose (SOP)**

**for MS in Aeronautics and Astronautics**

**This SOP is addressed to HOD of department of Aerospace**

**Brief introduction about myself:**

**I am Suraj Telugu former IIT Hyderabad Undergraduate with a Double major in Aerospace Engineering and Computer Science Engineering. I here by express my intent to join Masters in Aeronautics and Astronautics branch in your renowned University. My special interests are on Satellite designing and Rocket engine technology. I am also very much fascinated with Drone technology and its applications in contemporary world.**

**Purpose of choosing University of California, Berkeley, North America:**

* **One of top-ranking University in North America and routinely ranked among World’s best Universities.**
* **Established a reputation for pioneering research, innovation and discovery.**
* **Good lab facilities and large telescope, planetarium which Isa great boon to aerospace engineers like me.**
* **Best research and development activities with top faculty to help and a great environment to learners.**
* **Finest Employment opportunities.**

**Achievements in Academics:**

* **In my high school I qualified in IAPT examinations, I scored national 1% in Astronomy Olympiad and got a chance to visit Homi Bhaba space research Institute where my curiosity to learn subject developed even more.**
* **In have got more than 95% in 10th and 12th class CBSE board exams which was one of the top marks in my school.**
* **During my 11th and 12th, I have put my efforts in preparation for JEE advanced which is considered as one of the toughest exams in the world and despite the pandemic situation I secured a good rank which was a result of my hard work.**
* **I got admission in one of the top engineering institute in India IIT Hyderabad computer science and engineering branch.**
* **In my sophomore year I started taking a double major in CSE and Aerospace Engineering.**
* **I have got gold medal in one of the physics Olympiad and twice visited ISRO through fellowships.**
* **I have also a profound knowledge in computer science and programming which helped me learn the subject even better.**
* **I have done internship in Microsoft where I have learned to work real life programming problems. I have also done an internship in INTECH where satellites were designed.**
* **In my graduation year I did a theoretical project on spacecraft which was published in SPACE-X Time Magazine.**

**Project work:**

**In my graduation year I have participated in a 4 membered group project. We prepared delivery drones which have worked successfully. We have also got a patent by Swiggy and our project was the awarded the best project in my department. We were involved in a lot of multi-tasking abilities like coordination, planning, management, decision making and implementation of our ideas.**

**I personally developed my leadership qualities and spirit of team work in his project.**

**As mentioned earlier I did a theoretical project on spacecraft systems where I did a lot of research work and studied any scholar papers. I have written the mechanism of spaceship launching and the hard work behind it. I have also added my own suggestions and conclusion to it. I was very much honored as my project was published in SPACE-X Time Magazine. My project was awarded the best project in the entire IITH.**

**I developed my patience and my river of curiosity has turned into an ocean in this project work and my cocoon work has turned into a butterfly after this project work.**

**Motivation and Determination towards space research:**

**I always motivate myself to learn Aerospace in my career**

* **“What is beyond the sky?” It’s a question every child thinks while looking at the sky like every child I was always fascinated by the of space but unlike any other child I didn’t stop just questioning, I started find answers to my questions and decided to unveil the mystery.**
* **In my high school days I always tried to learn something new about space and when in made my first rubber band plane I truly enjoyed flying it and learnt the principle of its flying**
* **As mentioned earlier I have twice visited ISRO where I had a great conversation with many scientists and developed my subject understanding more practically.**
* **I always feel it different not difficult and whenever I learn a new thing my heart fills with immense joy and satisfaction.**
* **I am motivated from Dr APJ Abdul Kalam works who did great contributions to India in Aerospace field.**
* **I am also truly inspired from CEO of SPACE-X Elon Musk who is presently the richest person in the world. Even though his SPACE-X projects failed continuously thrice he learned from his mistakes and made his project successful. I got a lot motivated with his works and inspired by his attitude and dedication towards work.**
* **In this era of evolution, I have a strong desire to contribute something to the technology and invent a new gadget which makes life more comfortable.**

**Future goals:**

* **I would like to make a small satellite with less budget and more life time which would help a lot to understand more about the world**
* **Another idea is to try making a suit which makes human fly it may sound filmy but if its possible a new generation in transportation starts.**
* **I would like to join ISRO and contribute my knowledge for the development of my country in aerospace field.**
* **I want to continue my research work in the area of Aeronautics and become a member of research organization.**

**In the degree you offer I would help to develop my knowledge and I promise my put sincere efforts in achieving my goals.**

**Why the department can choose me:**

* **My Academic Excellency.**
* **My area of interest is matching with the department.**
* **A student like me who has a good knowledge in computer science would be more efficient in learning the Aeronautics subject deeply.**
* **I assure you I will be a candidate who uphold the name of university.**

**\*I hereby declare all the information given by above is true up to my knowledge\***

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