**Suraj.R**

**PROFILE**

An aspiring aerospace engineer and researcher, seeking an entry level opportunity with an ambition to contribute to the industry in the field of aerodynamics, shock analysis, space debris mitigation and modeling and related fields, resulting in professional development and organizational development

**EDUCATION**

* **B.Tech Aerospace Engineering**

**CGPA – 9.68 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 85% **2019**

Institution:

* **Class 10** – 100% **2017**

Institution:

**TECHNICAL INTERESTS**

Aerodynamics, Fluid mechanics, Shock Analysis, Space debris Mitigation and Modeling

**PROJECTS**

**A deployable redundant unit for spacecraft causalities.**

·Duration/Period: August-October 2020   
·Objective: To come up with a design of nano-satellite to collect essential data for investigation in case of any mishap during the decent of any planetary lander.

·Tools or techniques used: Fusion 360   
·Outcome: the conceptual design was laid out, Paper presented at IAC conference- Paper ID: IAC- 20,D5,1,3,x61215. Confirmed for publication in the journal Advances in Astronautics Science and Technology in 2021

**Comparison of Air-Launched Reusable System vs Ground-Launched System for Mars Sample Return.**

·Duration/Period: April-June 2021   
·Objective: To compare and review the existing designs of Martian airborne vehicles for mars sample return program and then compare with the established design of ground launch.

·Tools or techniques used: none   
·Outcome: Comparison of the considered methods was performed based on important parameters   
 Comparison of Air-Launched Reusable System vs Ground-Launched System for Mars Sample Return-Paper ID: GLEX-2021,3,2,5,x63109

**TECHNICAL SKILLS**

Arduino, AutoCAD, Fusion, Python

**INTERNSHIP**

**Society for Space Education and Research Development Bangalore.**

**·**Duration/Period: *06/2020 - 08/2020*  
·Objective: To come up solution for space debris in LEO, or to the existing methods of de-orbiting ·Tools or techniques used: Geogebra, Python, Matlab   
·Outcome: the concept of multiple bare tethers was introduced and the findings of the Internship have been presented at ESA’s 8th SPACE DEBRIS CONFERENCE. Paper Title: Comparison between Multiple bare tethers and Single Bare Tether for Deorbiting satellites

**CERTIFICATIONS**

AI for everyone – By Andrew Ng Platform: Coursera

The Arduino Platform and C programming- By university of California Irvine, Platform: Coursera

Intro to Digital Manufacturing with Autodesk Fusion 360- By Autodesk , Platform: Coursera

Telescope Making Workshop- Vigyan Prasar (Govt. Of India)

**LANGUAGES**

Kannada, English, Hindi, Telugu