

Satyam Anand

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EDUCATION

- **Guru Gobind Singh Indraprastha University** **New Delhi, Delhi**
Graduated First Division with B. Tech in Electronics and Communication Engineering 2017 – 2021
- **Vanasthali Public School** **New Delhi, Delhi**
Graduated First Division in class 12th CBSE board majoring in Physics, Chemistry and Mathematics. 2015 – 2016
- **Seventh Day Adventist Higher Secondary School** **Ahmedabad, Gujrat**
Graduated with 90% in class 10th from ICSE board majoring in Applied Science. 2013 – 2014

WORK EXPERIENCE

- **Indian Amateur Rocket Association** **Chennai, Tamil Nadu**
Electronics Engineer at PROJECT STARDUST August 2021 – present
 - Accountable for upgradation and operation of multiple sensors and their safety to withstand temperatures above 2000 K in a static fire test as well as flight computer on the NEBULA rocket.

- **Space Technology and Aeronautical Rocketry** **Surat, Gujarat**
Avionics Engineer August – September 2021
 - Developed and simulated microstrip patch antennae to operate in the free ISM band using MATLAB, HFSS and CST which lead to 6-dBi directivity and gain amplification for the Avionics of the KALAM sounding rocket to establish communication with the ground station.

- **Aerogram Pvt. Ltd, IIT Delhi** **New Delhi, Delhi**
Embedded Systems Intern February – August 2020
 - Collaborated in the manufacture of pollution measuring devices using LoRaWAN by fabricating LoRa devices and establishing a gateway for communication among them using ESP32 and RFM95 modules.
 - Programmed and simulated the LoRa devices and LoRaWAN gateway for bi-directional on the SPI interface using The Things Network leading to addition of more LoRa devices on the network and enhanced the range of communication between the LoRa devices from 400m to 1km

- **Space Technology and Aeronautical Rocketry** **Surat, Gujarat**
Avionics Intern July – August 2020
 - Engineered a static test pad of rocket motor to be operated and withstand force as high as 200kN.
 - Directed a team of interns and fabricated the PCB for the flight computer of a high-powered rocket using Eagle PCB and Solidworks software and demonstrated the flight computer using Tinker-cad, Open rocket and Proteus software.
 - Designed safety measures like heat shield and wireless data acquisition for the electronic console of static test pad over 100 meters.

PROJECTS

- **Credit Risk Analysis Using Machine Learning**
Constructed predictive models using Machine Learning algorithms to detect and predict customers who could be potential credit risks for banks and financial institutions.
- **Portfolio Website**
Designed a completely responsive portfolio website using HTML, CSS and ReactJS.

SKILLS & INTERESTS

- **Technical:** Embedded Systems, IoT, Solidworks, ReactJS, Eagle PCB, MATLAB, Ansys HFSS, Python, C++ and C.
- **Languages:** Fluent English and Hindi, Beginner Russian and French.
- **Interests:** Writing, Reading books, History and Cross-cultural cinema.

CERTIFICATIONS

- **Solidworks Training Certification, Internshala**
Credential ID: 5A693666-7997-FB07-6A2D-D5BC4543975A