

Satyam Anand

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Education

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

B. Tech in Electronics and Communication Engineering.

CGPA: 8/10

New Delhi

2017 – 2021

VANASTHALI PUBLIC SCHOOL

Graduated with 78% in class 12th from CBSE board

Majoring in Physics, Chemistry and Mathematics.

New Delhi

2015 – 2016

SEVENTH DAY ADVENTIST HIGHER SECONDARY SCHOOL

Graduated with 90% in class 10th from ICSE board

Majoring in Science.

Ahmedabad

2013 – 2014

Experience

SPACE TECHNOLOGY AND AERONAUTICAL ROCKETRY, Surat

Avionics Engineer

Remote

August 2021 – present

- Responsible for development and integration of communication systems for the Avionics of the KALAM sounding rocket to operate and deploy small payloads efficiently above 170 kilometers.

INDIAN AMATEUR ROCKET ASSOCIATION, Chennai

Electronics Engineer at PROJECT STARDUST

Remote

August 2021 – *present*

- Responsible 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.

AEROGRAM PVT. LTD, IIT Delhi

Embedded Systems Intern

New Delhi

February – August 2020

- Contributed in the creation 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.
- Improved the range of communication between the LoRa devices from 400m to 1km.

SPACE TECHNOLOGY AND AERONAUTICAL ROCKETRY, Surat

Avionics Intern

Remote

July – August 2020

- Led a team of interns and fabricated the PCB for the flight computer of a high-powered rocket using Eagle PCB and Solidworks software.
- Engineered a static test pad of rocket motor to be operated and withstand force as high as 200N.
- Designed safety measures like heat shield and wireless data acquisition for the electronic console of static test pad.
- Simulated the flight computer using Tinker-cad, Open rocket and Proteus software.

Projects

CREDIT RISK ANALYSIS USING MACHINE LEARNING

- Built predictive models using Machine Learning algorithms to detect and predict customers who could be potential credit risks for banks and financial institutions.

PORTFOLIO WEBSITE USING REACTJS

- Designed a completely responsive portfolio website using ReactJS.

Skills & Interests

Technical: Embedded Systems, IoT, Solidworks, ReactJS, Eagle PCB, Ansys HFSS, Python, C++ and C.

Languages: Fluent English and Hindi, Beginner Russian and French.

Interests: Writing, Reading books and Cross-cultural cinema.

Certifications

SOLIDWORKS TRAINING CERTIFICATION, INTERNSHALA

Credential ID: 5A693666-7997-FB07-6A2D-D5BC4543975A