

Sumit Ambuskar

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology** Jais, UP
(An Institute of National Importance along the lines of IITs)
Bachelor of Technology in Computer Science and Engineering; CPI: 7.58* Dec 2020 - Jun 2024
- **Sri Chaitanya junior kalashala** , Hyderabad
Intermediate: 91.1 % Jun 2018 - May 2019

EXPERIENCE

- **Hindustan Aeronautics Limited** May 2021-Jul 2021
Vocational Training
 - FLIGHT DATA RECORDER. SSFDR comprises of 3 LRU's DAU, RU, and CIU. Use to store in flash memory. Used for post flight and engine run analysis and crash analysis.
 - Performed various integration test using ATE (Automatic Test Equipment).
- **Coincent Industrial Training** May 2021-Jul 2021
Virtual Internship in IoT, Robotics and Embedded System
 - Coincent is a manage marketplace that offers Live Industrial Training, Projects Internship to students.
 - Worked on Smart Agriculture System based on IOT using IBM IOT Sensor simulators, open weather API data, NODERED, attractive dashboard and MIT App Inventor.

PROJECTS

- **Basic Microcontroller using Verilog** | Tool - ModelSim — Present
 - Designing ALU, Memory, Registers, Control Unit using Verilog.
 - Designing various Testbenches and Instructions for the Microcontroller.
- **Digital Bill Boards** | Tool - Yet to explore — Present
 - To make cost effective digitalized bill boards which can be control through app and server.
- **Data Encryption and Decryption** | Tool - Verilog, Modelsim — November 2022
 - Converting data from a readable format into an encoded format that can only be read / processed / decoded only after it's been decrypted using the concept of Symmetric-key algorithm: the same cryptographic key is used to encrypt the plaintext and to decrypt the cypher text..
- **A traffic lights circuit** | Tool - Verilog, Modelsim — October 2022
 - Design a traffic light circuit using concept of Mealy FSM(Finite State Machine).
- **Smart mobility EV vehicle** Sep 2022 - Present
 - Smart power efficient EV vehicle which can be easily used for inter campus travelling.
- **Smart White Board Duster** | Tool - NodeMCU esp8266, Arduino IDE, Sensor — July 2022 - Aug 2022
 - White board cleaner using pressure sensor, servo motor and NodeMCU microcontroller. Using mapping function between the digial voltage value and input rotation of servomotor.

SKILLS

- **Area of Interest:** Hardware Digital Design, RTL Design, CMOS Layouting, Digital Verification, IC Design, Analog Circuit Design, IOT, Robotics and Embedded System
- **Languages:** C++, C, Verilog, Ardiuno, Python, HTML, Socket Programming
- **Tools:** Cadence Virtuoso, ModelSim, Visual Studio, Arduino IDE, IBM Cloud, Node-Red, MIT App Inventor, Adafruit

ACHIEVEMENTS

- Qualified IIT-JEE Advanced 2020, ranking in the top 2%.

POSITIONS OF RESPONSIBILITY

- **Technical Executive** IEEE RGIPT SC

CO-CURRICULAR ACTIVITIES

- **Participated at the sport fest in IIT Kanpur(Udgosh)** Football