

Sanskar Jain



CGPA: 6.87

(till 3rd semester)

Percentage:84.8%

Percentage:96%

2023486, Email: sanskar23486@iiitd.ac.in

DOB: April 06, 2005

Address: Rampura Mohalla, Hisar, Haryana, 125001

Education

Indraprastha Institute of Information Technology, Delhi

Bachelor of Technology- Electronics & VLSI Engineering

2023-2027

USM Public School, Nangloi, Delhi

CBSE Standard 12 PCM

2021-2022

O.P. Jindal Modern School, Hisar, Haryana

CBSE Standard 10

2009-2020

Skills

Expertise Area System on Chip(SoC), Circuit Design and Analysis, PCB Design, Object

Oriented Programming, Data Structures and Algorithms

Programming Language

Python, C, C++, Verilog, Embedded C, Java

Tools and

Xilinx Vivado 2019.1, KiCAD, LTSpice, VSCode, Thonny, IntelliJ, Git,

Technologies Github

Programming Electives Introduction to Programming(Python), Data Structures and

Algorithms(C++), Computer Organisation, Advanced Programming(Java)

Electronics Electives

Digital Circuits, Basic Electronics, Embedded Logic Design(Xilinx Vivado & SDK), Circuit Theory and Devices(LTSpice & KiCad), Signals and

Systems, Integrated Electronics(BJT,MOSFET)

Math Electives Linear Algebra, Probability and Statistics, Multivariate Calculus,

Differential Equations

Projects

RISC Assembler and Simulator in Python

(Mar'24 – May'24) Team Size - 4

Guide: Dr. Tammam Tillo, IIITD

GitHub: https://github.com/Sushant-4444/CO PROJECT

Tech Stack: Python, Assembly, Terminal

- 1. Designed a custom assembler to convert the given instruction set architecture (ISA) to binary.
- 2. Designed a simulator to load binary data in the memory and track the progress of all instructions and registers.
- 3. Can handle floating point numbers.

Angry Birds Game

(Sep'24 - Dec'24)

Team Size - 2

Guide: Dr. Sambuddho Chakravarty, IIITD

Github: https://github.com/vaibhavkumar06/angry birds2

Tech Stack: Java, LibGDX, Object Oriented Programming

- 1. Created a clone of the popular PC game Angry Birds.
- 2. Implemented OOP principles such as Serialisation, Design Patterns, Exception Handling, Junit Testing and Encapsulation.
- 3. Designed UML and Use Case Diagrams for the game.

AC to DC Converter Circuit with PCB Implementation

(Oct'24 - Nov'24)

Guide: Dr. Pragya Kosta, IIITD

Team Size - 3

Tech Stack: KiCad, LTSpice, Soldering

- 1. Designed and implemented a PCB-based AC to DC converter, stepping down 220V AC to 5V DC using a transformer and bridge rectifier.
- 2. Ensured successful voltage regulation and circuit functionality by powering an LED indicator.

Analog Audio Equalizer and Amplifier

(Mar'25 - Apr'25)

Guide: Dr. Abhijit Mitra, IIITD

Team Size - 3

Tech Stack: Analog Circuit Design, BJT/ MOSFET Amplification

- 1. Designed and implemented a three-stage analog audio amplifier system using BJT and MOSFET components, with separate input, tone control, and output stages.
- 2. Engineered the output stage to drive an 8-ohm speaker with minimal distortion and efficient power delivery.

Short-Range Analog Walkie Talkie System

(Mar'25 - Apr'25)

Guide: Dr. Alok Mittal, IIITD Team Size – 4

Tech Stack: STM32 Cube IDE

1. Designed a wireless digital walkie-talkie system using STM32 microcontroller and nRF24L01 RF modules for real-time short-range audio communication over a 2.4 GHz link.

2. Implemented audio signal processing pipeline with microphone input, ADC conversion, I2S DAC output, Class D amplification, and push-to-talk (PTT) functionality for seamless transmit/receive switching.

Positions of Responsibility

Member of Electroholics Club

(Jan'24- Present) (Aug'24-Present)

Member of Trivialis Club

Awards and Achievements

• JEE Mains 2023 qualified with a rank of 31093 and 97.3 percentile.

• JEE Advanced 2023 qualified with a rank of 25959.

Interests and Hobbies

Badminton

• Inter College Quizzing

Declaration: The above information is correct to the best of my knowledge.

Sanskar Jain

Date: May 10, 2025