

SUMIT KUMAR DUBEY

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EDUCATION

Rajiv Gandhi Institute of Petroleum Technology

2022 – 2026

B.Tech - Electronic Engineering

Amethi, Uttar Pradesh

Mary Lucas School And College

2021

Indian School Certificate Examination(ISC) PERCENTAGE - 81

Prayagraj, Uttar Pradesh

COURSEWORK / SKILLS

- Digital Circuit Design
- Signals and Systems
- Embedded System
- Analog Circuit Design
- Hardware Described language (HDL)
- Electronic Design Automation (EDA)

PROJECTS

Verilog Implementation of MICROPROCESSOR | Verilog

2024

- Designed and implemented a RISC processor using Verilog, focusing on optimizing instruction execution and pipeline performance.
- Developed a comprehensive Testbench to validate functionality and enhance design efficiency.

High-Resolution Time-to-Digital Converter Project | Xilinx Vivado ,Verilog ,FPGA board

2024

- Designed and implemented a high-resolution time-to-digital converter (TDC) using FPGA technology.
- Developed innovative techniques for precise time measurement and noise filtering, achieving improved accuracy for pulse interval measurements. Utilized Verilog and SystemVerilog for design synthesis and simulation.
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Wireless IR Remote Controlled Robot | Arduino IDE , Arduino board

2023

- Designed and developed a wireless robot using an Arduino microcontroller, IR Remote Controlled Module.
- Programmed in Arduino IDE to enable remote control and navigation, integrating user-friendly controls for enhanced functionality.

TECHNICAL SKILLS

Languages: Python, C, Embedded-C , Matlab .

Hardware Described Languages: Verilog , System Verilog, VHDL

EDA Tools: Xilinx Vivado,Xilinx IDE, Arduino IDE,eSIM

ACHEIVEMENTS

- Qualified JEE ADVANCE
- Solved **150+** Problems across **HDL Bits** and Simulated design using **EDA playground**
- Selected as one of the Top 100 startup ideas in Cisco cohort - 6. [↗](#)
- Ranked among the Top 16 teams in the World Robotic Championship organized by AICRA. [↗](#)

POSITION OF RESPONSIBILITY

- Coordinator , Tinkering Lab (Science and Technical Council RGIPT).
- Coordinator , IEEE(Science and Technical Council RGIPT).