

# Sudip Pan

## Electronics and Communication Engineering Students

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### Summary

I am a passionate engineering student specializing in Electronics and Communication with hands-on experience in designing and simulating electronic circuits. With skills in Java, MATLAB Simulink, and various engineering tools, I thrive in both team and individual settings. My recent internship in the railway sector and my project work demonstrates my commitment to applying engineering concepts to real-world applications.

### Skills and Strength

#### Skills

- C/C++
- Matlab Simulink
- Circuit Design
- Communication System
- PCB Design
- Cadence Virtuoso
- Microprocessor & Microcontroller
- Computer Architecture
- Embedded C
- IoT
- VHDL
- ADC/DAC
- Web development (HTML, CSS, JS, React-JS, Tailwind-CSS)

#### Strength

- 1 Advanced problem solving skills
- 2 Strong communication skills
- 3 Hard working
- 4 Technical Documentation
- 5 Adaptable
- 6 Attentive

With strong problem-solving, communication, adaptability, and attention to detail skills, I'll drive business growth, improve efficiency, and enhance customer satisfaction. I'll deliver high quality results, reduce costs, and contribute to the company's success, making me a valuable asset to the team and supporting its goals.

### Projects

#### High Gain Amplifier using CMOS technology

08/2025 - 10/2025

This project involves designing and simulating a high-gain amplifier using CMOS technology

- Designed and simulated a high-gain amplifier using CMOS technology
- Achieved high gain-bandwidth product while minimizing power consumption and noise
- Utilized suitable topology, optimized transistor sizing, and frequency compensation techniques
- Verified the design using simulation tools
- Contributed to applications in communication systems, sensor interfaces, and biomedical devices

### Internship

#### Eastern Railway S & T Department

### Education

#### Ramkrishna Mahato Government Engineering College, Purulia

2022 – Present

Bachelor of Technology — Electronics and Communication Engineering

#### Class XII

WBCHSE

2021

#### Class X

WBSE

2019