ROHIT G

Tech Passionate

Contact Details

+91 9483197161 • https://www.linkedin.com/in/rohit-g-86a573361 • rohittg0930@gmail.com

ABOUT ME

I am an Electronics and Communication Engineering student with a strong interest in VLSI, Embedded Systems, Semiconductors, and Circuit Design. I have hands-on experience working with Arduino, transistors, and PCB design. I am actively seeking opportunities in core engineering, R&D, embedded systems companies, and design-oriented roles where I can apply and grow my technical skills.
Apart from all technical interests I indulge myself more in Dance and I'm a professional dancer. I've had many achievements in this field and I've won around 35-40 competitions all-over south India (includes achievements in all category)

EDUCATION

SJR PUBLIC SCHOOL - SCHOOLING

I completed my schooling in the above mentioned school from 1st to 10th & I'm the School's second topper in 10th boards with percentage of **94.88%.** 2009-2020

MES COLLEGE OF SCIENCE, COMMERCE AND ARTS - 11TH AND 12TH

My Pre-Univeristy Education was completed in Electronics (PCME) domain with an aggregate score of **85.66%.** 2020-2022

JSS ACADEMY OF TECHNICAL EDUCATION - DEGREE

(Expected Graduation: 2026) 2022-2026

- Pursuing my Engineering in ECE Branch with an,
  - Overall CGPA (Up-to 5th Semester only) : **7.658**

SKILLS

- Technical Skills : - Circuit Theory and Analysis , Digital Electronics, Analog Electronics, Verilog / VHDL (Hardware Description Languages), MATLAB / Simulink, Assembly Language Programming (for Microcontrollers), Python, C/C++, Cadence
- Design, Simulation & EDA Tools :- Xilinx ISE / Vivado (for FPGA & VLSI Design), ModelSim (Simulation of HDL Code), Multisim / LTSpice (Circuit Simulation)
- Soft skills :- Teamwork & Collaboration, Communication Skills, Time Management, Leadership

PROJECTS

- Obstacle Detection and Automatic Braking System on Railway Tracks

Designed an automated safety system for model trains using HC-SR04 ultrasonic sensors to detect obstacles within a 5-meter range and activate brakes to prevent collisions. An Arduino Uno processed real-time sensor data and triggered a relay-controlled DC motor brake system, cutting power upon detection. A regulated Power Supply Unit ensured stable operation of all components. The project demonstrated effective sensor-actuator integration, power management, and embedded logic to enhance safety and automation in model train systems.

- **Current Project: Underwater Wireless Communication System**
  - A research-based project exploring data transmission in submerged environments using low-frequency electromagnetic or acoustic waves.
  - Aims to solve real-world challenges in underwater navigation, exploration, and communication.
  - Focused on optimizing range, signal clarity, and component miniaturization for future implementation.

LANGUAGES

- English, Kannada, Hindi, Tamil