PRANAAM GIRITIMMANNAVAR

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About me- I am an enthusiastic and driven Electronics and Communication Engineering graduate with a strong passion for VLSI design and Embedded Systems. My goal is to contribute to the semiconductor industry by solving real-world challenges through innovative, scalable solutions.

EDUCATION

Bachelor of Education in Electronics and Communication Engineering **2022-Present**

JSS Academy Of Technical Education - Bengaluru, Karnataka
CGPA overall(Till 5th sem) : 7.8

PreUniversity **2020-2022**

Deeksha Centre For Learning
88.98%

10th Grade **2019-2020**

Sri Chaitanya
Techno School
84%

SKILLS

CORE SKILLS: Analog and Digital Electronics, Digital logic design, Basics of Vlsi, Digital Communication, Basics of C++, Verilog, schematic Capture & Layout Design, CMOS Technology
SOFT SKILLS: Problem solving, Team collaboration, Project management, Public Speaking, Time management
TOOLS : Cadence genus, Cadence Virtuoso, Arduino, 8051-Microcontroller, Xilinx, MATLAB.

PROJECTS

Obstacle detection and Automatic Braking Of Train on Railway Track:-

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.

Block Chain based voting system using fingerprint encryption

Developed a secure electronic voting system that integrates Blockchain technology for immutable vote recording and fingerprint-based biometric authentication to ensure voter identity verification. The system leverages SHA-256 hashing and smart contract logic to enable transparent, tamper-proof, and decentralized voting. Designed and implemented the user interface, biometric integration, and blockchain backend, improving both voter authenticity and election integrity.

Achievements and Interests:

Athletics: Represented our college 3 times in State Vtu Athletics meet for middle distance -And have secured top 10 for 2 times, have secured 7th place in Bangalore mountain festival 5k trail run.
Hockey: Represented college team at Bangalore south zone in 2024- Finished as Semi-finalists.
Toastmaster: Awarded Best Speaker, Best Role Taker, Best Tag Team Player, and Best Table Topic Speaker multiple times for excellence in public speaking and teamwork.

Languages:

Kannada, English, Hindi.