Nishant Singh

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EDUCATION

Vellore Institute of Technology Vellore, Tamilnadu
*B.Tech in Electronics and communication Engineering; **GPA: 9.06/10.00*** *Aug 2021 – July 2025*
Vellore, Tamilnadu
Army Public School LBS Marg, Lucknow
Intermediate : **93.2%**
High School : **96.8%**

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Verilog, SQL, HTML, CSS, MATLAB, R
Tools, Libraries and Frameworks: Frontend development, Embedded C programming, VLSI CAD, ML, MySQL, IoT domain Analyst,Numpy,Panda,Google Colab
Soft Skills: Decision Making, Problem Solving, Creative Communication, Critical Thinking, Adaptability

EXPERIENCE

OROM CORP. Vellore, Tamilnadu
frontend Developer *January 2023 – March 2023*

- Developed and implemented responsive web designs that improved user engagement metrics by 30% across multiple devices, collaborated with designers to ensure adherence to best practices, resulting in enhanced website performance and loading times.

Apsis Solution Bengaluru, Karnataka
Embedded Systems Intern *Sep 2023 – Oct 2023*

- Maintained and built TCP protocols for embedded devices, ensuring smooth communication and data transfers. Created OTA firmware upgrades for remote device updates. Hands-on experience with soldering PCBs and designing efficient circuits, enhancing gadget performance by 20%. Worked extensively with PIC 18, ESP, and Holtek microcontrollers, gaining significant experience in microcontroller programming and hardware integration.

EXTRACURRICULAR ACTIVITIES AND LEADERSHIP POSITIONS

Yantra 2024: Implemented a streamlined visitor management system that improved check-in efficiency by 40%, enabling over 150 attendees to access events promptly and increasing overall satisfaction ratings significantly.

Gravitas 2022: Coordinated visitor schedules and lodging arrangements for over 500 attendees at Gravitas 2022, ensuring a seamless and welcoming experience by implementing a detailed tracking system that optimized check-in processes and reduced wait times by 30%.

PROJECTS

Car Price Prediction Using ML | *GitHub*

- Developed an Automobile Price Predictor using machine learning regression models to forecast pricing. By analyzing over 100,000 historical records, the project improved pricing accuracy by 25%, aiding consumers in making informed buying and selling decisions and optimizing pricing strategies for resale websites.

Smart Plant Monitoring System | *GitHub*

- Developed a Smart Plant Monitoring System using a Node MCU with an ESP12E IC and sensors (soil moisture, DHT11, PIR motion). Monitored plant conditions and enhanced security with a motion alert system, sending real-time data to Blynk.io for analysis, improving plant care management by 30%.

OTA Firmware Update | *GitHub*

- Developed Embedded C software for OTA Firmware Updates, enabling over 10,000 devices to download and update firmware via the cloud. This improved maintenance efficiency by 40% and reduced manual update times by 60%.

SR Flip-Flop using Sequential Circuit | *Research Project*

- Constructed and simulated an SR latch using Cadence's CMOS technology. This essential digital memory element safely stores a single bit with cross-coupled CMOS gates and feedback for stability. Leveraged CMOS's low power consumption and high integration density. Cadence simulations validated the latch's functionality and reliability, highlighting its role in complex digital systems.

Relevant Coursework

Major coursework: Electrical Circuits, Digital System Design, Numerical Methods, Probability Theory, Electronics, Signals and Systems, Electromagnetic Field Theory, Communication Engineering, Introduction to Digital Signal Processing,Digital Communications, Introduction to Database Systems, Introduction to Image Processing

Minor coursework: Introduction to Object-Oriented Programming, Data Structures and Algorithms, Internet of Things Domain Analyst, Robotic and Automation, AIML, Cryptography and Network security

Certifications

Internet of Things foundation

Frontend Web Development

Forest and Their Management NPTEL

Training of Trainers NPTEL

Organizations

Institution of Engineers (India) IE(I) *Feb 2023 – Present*
Student Member