Tushar Chaudhari

Electronics and Telecommunication Engineering Student — PCB Design — Microcontroller Programming

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itusharchaudhari Tushar's Portfolio

Professional Summary

I am an aspiring Electronics Engineer currently pursuing a B.Tech in Electronics and Telecommunication Engineering. My skills include electronic circuit design, PCB design, and microcontroller programming, supported by hands-on experience with tools such as digital multimeters (DMM), oscilloscopes, KiCad, MATLAB, Keil uVision, and Proteus. Passionate about innovation and technology, I actively seek practical challenges to enhance my technical expertise and broaden my knowledge. I am eager to contribute to research and development initiatives and continue growing as an engineer.

Education

B.Tech in Electronics and Telecommunication Engineering
Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded — *Nov 2022 – May 2026*

HSC (Higher Secondary Certificate)
Shree Shivaji Junior College of Science, Darwha — *Feb 2021 – Mar 2022*

SSC (Secondary School Certificate)
Shree Shivaji High School, Darwha — *Feb 2019 – Mar 2020*

Skills

- **Programming Languages:** C, C++, Python, Assembly
- **Web Development:** HTML, CSS, Bootstrap, JavaScript
- **Core Skills:** Problem-solving, Debugging, Algorithm Development
- **Tools & Technologies:** MATLAB, Keil uVision5, LTspice, KiCad, Oscilloscope, Function Generator, Git, VS Code, Proteus
- **Soft Skills:** Time Management, Teamwork, Continuous Learning

Projects

- **Customer Churn Prediction using Machine Learning**
  Developed a predictive model using Python, Pandas, Scikit-learn, and XGBoost to forecast customer churn in a telecom dataset. Applied SMOTE for class balancing, performed feature selection, and tuned hyperparameters. Achieved 96%+ accuracy and deployed it via a Streamlit dashboard.

- **Arduino-based Digital Ohmmeter**
  Created a digital ohmmeter using Arduino, LCD, potentiometer, and breadboard to measure resistance. Improved design accuracy and reliability through hardware debugging and testing.

- **Even Number Display on 7-Segment using LPC2148 Microcontroller**
  Designed and programmed a 7-segment display system to show even numbers (0–8) using the LPC2148 microcontroller. Configured GPIO pins and implemented timing logic in Embedded C. Simulated and tested the circuit in Proteus to verify segment activation and delays.

Professional Development

- Attended a PCB Design Workshop
- Completed "Silicon Symphony VLSI" Master Class

Leadership & Activities

- Coordinator: FSDC (Official Dance Club)
- Decoration Lead: Zenith (State Level Sports Event), UTSAV (Cultural Fest)

Hobbies and Interests

- **Technical:** Coding, Software Development
- **Hobbies:** Dance choreography, listening to music, and watching movies
- **Personal Growth:** Reading Technical/Non-Technical Books