

# Harsh Umredkar

✉ harsh121umredkar@gmail.com | 📞 +91-8925170127 | 🔗 linkedin.com/in/harshumredkar06

## SUMMARY

Electronics and Electrical Engineering student at VIT Chennai (CGPA: 8.45/10) with internship experience in electrical design and strong hands-on knowledge in electronics hardware, power systems, and embedded projects. Skilled in blending hardware design with modern digital and cloud-based solutions.

## EDUCATION

**Vellore Institute of Technology, Chennai** 2023 – 2027  
**B.Tech in Electronics and Electrical Engineering** – CGPA: 8.45/10

## EXPERIENCE

**L&T EduTech – Electrical Design for Modern Building Infrastructure** May 2025 – Jul 2025

- Worked on transformer sizing, circuit breaker selection, cable sizing, and power factor improvement.
- Designed protection systems and layouts for IT park and commercial infrastructure.

## PROJECTS

- **Gesture Controlled Car** – Arduino-based wireless car operated via hand gestures.
- **Dynamic Voltage Restorer (DVR)** – Modeled DVR to mitigate voltage sags and improve power quality.
- **Voltage Inverter** – Built single-phase inverter for efficient DC–AC conversion.
- **Predictive Maintenance System** – Vibration-sensor solution for fault detection in rotating machinery.
- **AWS Website** – Deployed secure, cost-optimized website on AWS S3 with CloudFront integration.

## SKILLS

Programming	Python, Java, Assembly Language (basic proficiency)
Hardware	Circuit design, embedded systems, strong electronics hardware knowledge
Tools	MATLAB/Simulink, Arduino, PLC Programming, AWS Cloud
Soft Skills	Teamwork, Event Coordination, Communication, Problem Solving

## ACHIEVEMENTS & CERTIFICATIONS

- Class 10 ICSE Topper – 95%.
- Certification: Electrical Design for Modern Building Infrastructure – L&T EduTech.
- Certification: PLC (Programmable Logic Controller) Value Added Course.
- Event Coordinator – Aerospace Club, VIT Chennai.