

# VEDANT BHANDARE

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## SUMMARY

Electronics & Telecommunication Engineering student with hands-on experience in embedded systems, microcontrollers, and circuit design. Skilled in C, C++, and Python with strong analytical and problem-solving abilities. Demonstrated leadership through academic and extracurricular roles. Eager to contribute to innovative engineering environments.

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## SKILLS

### Technical Skills

- Programming: C, C++, Python, HTML
- Embedded Systems: Microcontrollers (Arduino, ESP boards), sensor integration, serial communication
- Electronics: Circuit design, PCB basics, signal processing, hardware troubleshooting
- Tools: MATLAB (basic), Multisim, Proteus, Git, VS Code
- Core Concepts: Algorithms, data structures, op-amp applications, IoT fundamentals

### Soft Skills

- Leadership, communication, teamwork
- Adaptability, quick learning, problem-solving

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## PROJECTS

- **Obstacle Detection Glasses for the Visually Impaired**  
Designed smart wearable glasses using ultrasonic sensors to detect nearby obstacles and provide haptic feedback, improving mobility and safety for visually impaired users.
- **BioFeedback Wellness System (ML-Enabled)**  
Developed an intelligent system integrating sensors, machine learning, and personalized adaptive feedback for monitoring wellness metrics.
- **Piezoelectric Footstep Energy Harvesting**  
Built a prototype energy-generation system using piezoelectric sensors to convert footsteps into electrical energy, demonstrating renewable energy concepts.
- **IR-Based Proximity Sensor**  
Designed a compact IR proximity detection circuit using IR LED emitter, photodiode receiver, and op-amp comparator for short-range sensing applications.

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## EDUCATION

**Bachelor of Engineering in Electronics & Telecommunication**  
Terna Engineering College, Nerul, Navi Mumbai (Expected in 2027)

**Aug 2023 - July 2027**

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## ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Marathi
- **Certifications:** IIT Madras Soft Skills • PCB Design Basics • Python Essentials
- **Awards/Activities:** Presented an innovative engineering project at a college exhibition while contributing to Public Relations and Finance operations during the college fest, demonstrating strong teamwork, leadership, and organizational skills across multiple campus roles.
- **Links: Project Portfolio & Documentation:**  
<https://drive.google.com/drive/u/0/folders/17G7rToHR60xKnUpdhkPB5rjXap2NRrhI>