



BRIEF SUMMARY

Motivated and detail-oriented Electronics and Telecommunication Engineering student with hands-on experience in embedded systems, circuit design, and IoT-based projects. Passionate about applying technical knowledge to solve real-world problems through innovative engineering solutions. Strong teamwork, problem-solving, and project management skills with a keen interest in automation and emerging technologies like EV systems and signal processing.

KEY EXPERTISE

Electric Vehicles MATLAB Data Teamwork Communication Hardware

EDUCATION

MIT Academy of Engineering, Pune

2023 - 2027

B.Tech. - Electronics and Telecommunication Engineering | CGPA: 7.51 / 10

Dnyanganga junior college of science and commerce, Pune

2023

12th | state | Percentage: 60.33 / 100

Vidyadham prashala Shirur Dist.Pune, Pune

2021

10th | state | Percentage: 92.60 / 100

PROJECTS

Major Project

08 Aug, 2025 - 06 Jan, 2027

Mentor: Prof. Vaishali Katkar | Team Size: 4

Key Skills: MATLAB Circuit Design Power Electronics Electric Vehicles Energy

Designed and simulated a fast-charger system for electric vehicle to enhance charging speed and efficiency. The project focused on improving energy transfer, minimizing voltage ripple, and ensuring reliable operation under variable load conditions using MATLAB/Simulink.

Minor project

08 Aug, 2024 - 10 Apr, 2025

Mentor: Prof. Abhilasha joshi | Team Size: 4

Key Skills: Microcontroller Hardware Robotics

Designed and developed a Bluetooth-controlled fire-fighting robot capable of detecting and extinguishing fires remotely. The system integrates flame and temperature sensors with a microcontroller for fire detection, and uses a motor-driven water pump for suppression. Controlled via a smartphone using Bluetooth communication for enhanced flexibility and safety.

ACHIEVEMENTS

- Winner of Sports Shield (First Year)

SEMINARS / TRAININGS / WORKSHOPS

BSNL Internship Training Program Institute Name: Bharat Sanchar Nigam Limited

18 Jun, 2025 - 05 Jul, 2025

Key Skills: Telecom Optical Fiber router setup Broadband

Completed a comprehensive 3-week internship covering the fundamentals of telecom networks, broadband systems, optical fiber communication, and mobile communication technologies (3G, 4G, 5G). Gained hands-on experience with TCP/IP networking, router configuration, VLAN setup, broadband troubleshooting, and optical fiber splicing.

EXTRA CURRICULAR ACTIVITIES

- Manage Nakshatra events as member.
- Manage Shiv-jayanti and ganpati festival under Ignited mind club.

PERSONAL INTERESTS / HOBBIES

- sports
- travelling

PERSONAL DETAILS

Gender: Male

Marital Status: Single

Current Address: flat no-203,'B'building,,baburao nagar,vishwa
residenci,,baypass,nagar-pune road,,,412210, ., Pune,
Maharashtra, India - 412210

Emails: ruturajshelke15@gmail.com , 202301070106@mitaoe.ac.in

Date of Birth: 07 May, 2005

Known Languages: Marathi,Hindi,English

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