

# TUSHAR VADHEL

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**Summary** : Enthusiastic Electrical Engineering graduate with strong academic knowledge in power electronics and electric vehicle technologies. Skilled in using MATLAB for circuit simulation and analysis. Passionate about applying technical skills to innovative electrical projects and eager to contribute to sustainable energy solutions.

## Skills

Communication  
Management  
Leadership

## Core skills

MATLAB  
AutoCAD

## Project And Experience

- Wireless AC Line Director (Diploma, 3rd Sem) – Detected AC lines without direct contact, reducing electrical risk and improving safety.
- Automatic Solar Tracker (Diploma, 6th Sem) – Designed solar tracker with sensors; improved energy capture by 25–30%.
- Wireless EV Charger (B.E., 4th Sem) – Developed wireless EV charger using MATLAB; achieved about 75% charging efficiency.
- Solar Electric Bicycle (B.E., 5th–6th Sem, SSIP) – Fabricated solar-powered bicycle; achieved 90% project completion, promoting sustainable mobility.

## Internship And Work Experience

- Vocational Training – GHCL VTI, Jafrabad (4 Months, NSDC Certified)  
Gained hands-on experience with electrical systems, improving practical skills in maintenance and operations.
- Part-Time Cashier – D-Mart (4 Months)  
Developed responsibility, accuracy, and communication skills while managing customer billing and transactions.
- Internship – GPPC, Pipavav (2 Weeks)  
Learned about power station operations and observed how large-scale companies manage electrical systems and safety practices.

## Academics

- B.E. in Electrical Engineering (2023–2026, Running)CGPA: 8.04 upto 7th semester
- Minor in Electric Vehicle Engineering (2024–2025, Running)Grade: AB up to 6th semester
- Diploma in Electrical Engineering (2020–2023)CGPA: 9.07, completed with distinction
- SSC (10th, GSSEB) (2019–2020) 53.17%

## Technical & Leadership Activities

- SSIP Project – Solar Electric Bicycle

## Hobbies

- Reading books
- Watching anime
- Esports
- Video editing