

TEJAS SATISH KALE

Dynamic Maintenance Engineer with hands-on experience in press shop machine maintenance, utility systems, and industrial automation. Skilled in breakdown handling, PLC troubleshooting, and project installation. Proven ability to minimize downtime, ensure safety compliance, and handle shift operations independently.

Electrical Engineering

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EDUCATION

B.Tech. in Electrical Engineering (2022–2026)	Sanjivani College of Engineering, Kopargaon	7.9 CGPA
HSC (Science) (2021–2022)	R. B. N. B. College, Shrirampur	62.00%
SSC (2019–2020)	C.M.V, Manjari	85.20%

SKILLS

Technical: PLC Troubleshooting, Electrical Maintenance, Breakdown Analysis, Preventive Maintenance, Utility Systems (Compressor, HVAC basics).

EDUCATIONAL PROJECTS

Solar-Powered Smart Adaptive System for Forest Areas and Outdoor uses (06/2025)

Developed an innovative solar-powered smart system that helps outdoor users and forest officers by detecting animals, tracking location, providing lighting, monitoring temperature, and offering phone charging support. (Main Objectives: Providing protection for shepherd's community, supporting forest officers, and offering an emergency safety system for soldiers.)

INDUSTRIAL PROJECTS

Operator Safety Interlock System for Scrap Packing Machine Using Safety Sensor

A safety sensor is used to detect if a person's hand or body is inside the machine area. If detected, the machine will not start or will stop automatically to prevent accidents.

Automatic Air Pressure Control System Using Relay & Pressure Switch

The compressor starts when air pressure is low and stops when pressure becomes high. This happens automatically using a pressure switch.

Chiller Tank Water Level Monitoring and Low-Level Alarm System

A sensor is used to check the water level in the chiller tank. When the water level becomes low, an alarm is activated to alert the operator.

Shift-Wise Production Counting System Using Digital Counter

A sensor and digital counter are used to count the number of parts produced on a conveyor. It helps track total production in each shift.

ACHIEVEMENTS

1st Prize Winner for the project “A Solar-Powered Smart Adaptive System for Forest Areas and Outdoor Use” at:

1. I²ST 2K25 (Shri Chhatrapati Shivaji Maharaj College of Engineering, NEPTI, Ahilyanagar)
2. LoGMIEER Tech-Fest 2025 (Loknath Gopinath Munde Institute of Engineering Education and Research, Nashik)

Journal Paper Submitted (Scopus Journal)

“Shepherd Assist: A Solar-Powered Smart Portable System for Sustainable Energy Access, Safety, and Communication in Rural and Remote Communities (**Manuscript No. SOLCOM-D-25-00103**).

PERSONAL PROFILE

Hobbies: Traveling.

Languages: English, Marathi, Hindi.

DOB: 12/10/2003

Experience

Amber Enterprises Pvt. Ltd. Supa

Department Maintenance (Graduate Engineer Trainee)