GHODAKE VINAYAK NARENDRA

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CAREER OBJECTIVE

Highly motivated and technically oriented final-year Electrical Engineering student seeking an entry-level position to apply technical knowledge and internship experience in electrical systems, power distribution, industrial panels, and solar PV systems while contributing to organizational growth and developing practical engineering expertise.

EDUCATION

Degree / Qualification	Institute / University / Board	Year	CGPA/ % Marks
B.Tech in Electrical Engineering	Government College of Engineering, Kolhapur. (Dr. Babasaheb Ambedkar Technological University, Lonere.)	Final Year	**Pursing**
		Third Year Sem(V/VI)	**71.78 /76.22 %**
		Second Year Sem(III/IV)	**74.25 /73.25 %**
Diploma in Electrical Engineering	Walchand College of Engineering, Sangli.	2024	**90.61%**
SSC	S.M. High School and Junior College, Malgaon.	2020	**93.40%**

VOCATIONAL TRAINING & INTERNSHIPS

Online Internship — Solar PV System Design **August 2026**

- Developed foundational knowledge of solar photovoltaic (PV) system design, including solar modules, string configuration, inverters, protection devices, and system sizing.
- Gained practical understanding of grid-connected solar PV system design, single-line diagrams (SLD, basic performance analysis using industry-oriented design concepts.

Vocational Trainee — Sai Electric Company (Control & Power Distribution Panel Manufacturer) **Jul – August 2025**

- Gained practical exposure to the manufacturing, assembly, wiring, and testing of LT/HT motor control and power distribution panels.
- Studied power and control circuit diagrams, busbar arrangements, MCCBs, contactors, relays, overload relays, and other protection and switching devices used in industrial panels.

Vocational Trainee — Magnewin Energy Pvt. Ltd (Power Capacitor Manufacturing Company) **Jun 2024- July 2024**

- Acquired structural understanding of manufacturing, automated winding, and vacuum insulation-impregnation processes of power capacitors.
- Studied the integration, wiring, and logic sequencing of Automatic Power Factor Correction (APFC) panels for industrial load compensation.

Vocational Trainee — MSEDCL Substation (33kV/11kV) **Jun 2023-July 2023**

- Observed and understood the operation of power distribution systems, load flow management, and metering infrastructure in a real-world setup.
- Acquired practical knowledge of substation equipment, fault analysis, and grid safety practices under the guidance of industry engineers.

TECHNICAL PROJECTS

Design and Implementation of Buck-Boost Converter

- Engineered a operational DC-DC Buck-Boost converter utilizing high-frequency power electronic switches (MOSFETs/ IGBTs).

- Calculated critical reactive component parameters (inductors, filter capacitors) to ensure minimal ripple and Continuous Conduction Mode (CCM).

DC Motor Speed Control using Arduino

- Developed an embedded prototype to regulate the angular velocity of a DC motor using discrete Pulse Width Modulation (PWM) duty cycles.

Smart Home Automation System Integration

- Built a microcontroller-driven residential automation prototype using relay drivers, sensor arrays, and communication interfaces.
- Optimized programmatic load control logic for electrical energy conservation, appliance load-shedding, and physical shock isolation safety.

TECHNICAL & COMPUTER SKILLS

Core Engineering:	Power Electronics, Power Systems Analysis, Electrical Machines, Circuit & Network Theory
Hardware & Systems:	Arduino Integration, Microprocessors (8085 / 8051) Architecture, Power Switchgears & Relays
Software & Tools:	Basic Computing, Microsoft Office Suite (MS Word, MS Excel, MS PowerPoint)

AWARDS & ACHIEVEMENTS

First Prize Winner: State-level Technical Quiz Competition organized by the **Maharashtra State Board of Technical Education (MSBTE)**, demonstrating rapid analytical logic and thorough comprehension of foundational engineering principals.