

Surya Shinde

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PROFILE

Third-Year Electrical Engineering student with hands-on experience in Arduino, circuit design, and electrical projects. Strong understanding of electrical and electronic components, technical drawings, and datasheets. Proficient in Microsoft Excel for data organization and analysis with excellent attention to detail. Eager to contribute technical knowledge while continuously learning and solving real-world engineering problems.

EDUCATION

B.E Electrical Engineering

Aissms COE, Pune

SPPU (Savitribai Phule Pune University)

PROJECTS

1) Smart Irrigation System

- Designed and developed an Arduino-based Smart Irrigation System by integrating soil moisture sensor, relay module, and a water pump to enable automatic irrigation based on real-time soil moisture levels.

2) Electrical Switch Board Design

- Designed and assembled a functional electrical switchboard by integrating dual switches, regulator as intensity control, sockets, and wiring components while ensuring proper circuit connections and electrical safety.

3) Dual Volt Regulated Power Supply

- Designed and developed a dual regulated DC power supply capable of providing stable positive and negative (5,12)V voltage outputs using voltage regulators, rectifier circuits, filters, and transformers for electronic circuit applications.

4) Traffic Light Control

- Designed and implemented a traffic light control system using digital logic ICs 555 to automate sequential signal operation with accurate timing control.

5) Temperature and Distance Measurement using Arduino UNO R3

- Developed an Arduino-based monitoring system using DHT11 and ultrasonic sensors to measure temperature and distance, displaying real-time data on a 16×2 LCD.

Relevant Coursework

Electrical Machines, Circuit Analysis, Analog Electronics, Digital Electronics, Measurements & Instrumentation, Electrical Circuit Design, Engineering Drawing, Basic Electrical Engineering.

SKILL

- Technical skill** : Microsoft Excel, MATLAB, Simulink, Arduino IDE, C Programming, Circuit Design & Analysis, Electrical & Electronic Components, Technical Documentation, Sensor Integration, Data Analysis, Python, Power BI.
- Soft skill** : Problem Solving, Analytical Thinking, Attention to Detail, Team Collaboration, Effective Communication.