PATI SRI SAI BALAJI

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EDUCATION

◆ **SRKR ENGINEERING COLLEGE (2023-2026)**
- B.tech in Electrical and Electronics Engineering

◆ **SMVM POLYTECHNIC (2020-2023)**
- Diploma in Electrical and Electronics Engineering

◆ **SIR C R R PUBLIC SCHOOL (2020)**
- CBSE

SKILLS

- Embedded systems
- MATLAB software
- basics in C language
- basics in verilog

PROJECTS

- Wireless controlled dry type Solar panel cleaner using NodeMCU(ESP32)
- Innovation for Sustainability: Driving smart resource conservation((energy and water) in home appliances (refrigerators, air conditioners and washing machines)using NodeMCU(ESP8226)and arduino UNO

CAREER OBJECTIVE

○ Seeking an opportunity in a dynamic organization to apply knowledge, develop new skills, and contribute to innovative projects. Committed to continuous learning and professional growth in a collaborative environment.

INTERNSHIP AND CERTIFICATIONS

○ **NPTEL: SYSTEM DESIGN THROUGH VERILOG (8-week)**
- Gate level modelling
- Behavioral modelling
- Data flow modelling
- Switch level modelling
- Synthesis of combinational logic using verilog

○ **IIDT collaborated Black bucKs: Embedded systems and IOT (8-week)**
- Embedded System Concepts
- Develop Embedded System Applications
- Apply IoT Architecture and Communication Protocols
- Design and Implement IoT Applications
- Analyze Power and Performance Optimization

○ **APTRANSCO-Electrical transmission (24-week)**
- practical exposure to power transmission systems
- grid operations and electrical infrastructure
- Maintenance of electrical equipment and battery room
- Developed a strong understanding of power quality load flow analysis, fault detection, and grid stability

○ **NPTEL: Facts Devices (8-week)**
- Power Electronic Controllers and PWM techniques.
- Static Shunt Compensators
- Static Series Compensators
- Static Voltage and Phase Angle Regulators.
- Unified Power quality Conditioner (UPQC) and Unified Power Flow Controller (UPFC).
- Interline Power Flow Controller (IPFC) and application of FACTS device.