



# SIVALINGAM S

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## Objective

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts me with responsibilities and challenges.

## Experience

- DURAI ENGINEERING (THERMAL POWER PLANT THOOTHUKUDI)** 1/8/2022 - 3/9/2023  
TECHNICAL ASSISTANT( CONTRACT)  
MOTOR TESTING :  
While the specific tests conducted will vary depending on the complexity of the motor, its application, and the parameters being evaluated, some of the key tests used during electric motor testing include  
  
TRANSFORMER TESTING :  
Transformer testing can be broadly categorized into three main types: Type Tests, Routine Tests, and Special Tests. Type tests are conducted on prototype transformers to verify their design and performance, while routine tests are performed on every manufactured unit to ensure consistent quality. Special tests are conducted as needed, often at the request of the customer or to address specific concerns.  
  
PANEL MAINTENANCE :  
A panel maintenance checklist ensures the safe and efficient operation of electrical panels by outlining regular inspection and maintenance tasks. Key areas include visual checks for damage, testing of circuit breakers, verifying proper grounding, and cleaning to prevent overheating. A comprehensive checklist helps prevent costly downtime and ensures compliance with safety regulations.
- RUBAN ELECTRICAL (SPIC THOOTHUKUDI)** 7/09/2023 - 6/07/2025  
TECHNICAL HELPER (CONTRACT)  
VISUAL INSPECTION :  
General:  
Check for any visible signs of damage, overheating (discoloration or melted insulation), or loose components on electrical panels, wiring, and outlets.  
Equipment:  
Inspect motors, pumps, and other critical equipment for unusual noises or vibrations.  
Environment:  
Ensure electrical rooms and equipment are within acceptable temperature and humidity levels.  
Emergency Systems:  
Verify emergency lighting, exit signs, and backup power systems are functioning correctly.  
TESTING AND VERIFICATION :  
Circuit Breakers:  
Test all circuit breakers to ensure they are functioning properly and reset any tripped breakers after investigating the cause.  
Grounding and Bonding:  
Verify grounding connections are secure and corrosion-free, and that all equipment is properly bonded.  
Safety Devices:  
Test Ground Fault Circuit Interrupters (GFCIs) and Arc Fault Circuit Interrupters (AFCIs) for proper operation.  
Voltage:  
Check that voltage levels are within specified limits.  
EQUIPMENTS AND PERFORMANCE MONITORING :  
Critical Equipment:  
Monitor the performance of servers, networking devices, and other critical electrical equipment.  
Lighting Systems:  
Check for flickering lights and ensure emergency and exit lighting systems are working correctly.

## Education

- Govt higher secondary school valavallan  
SSLC  
431/500 2016
- Govt higher secondary school valavallan  
HSC  
965/1200 2018
- St, mother Theresa engineering college vagaikulam  
B.E (EEE)  
7.55 CGPA 2022 passedout

## Skills

- Ms Excel
- Ms office
- Basic computer knowledge
- SAP (MM)
- MAT LAB

## Projects

- **Smart Shopping Cart with Automatic Billing System using Arduino**  
we design a smart shopping cart with an automatic billing system. This automated payment system consists of an automated billing system with the help of GSM technology and RFID technology.  
  
When you put any product in a trolley it is detected by the RFID module and is displayed on the 20×4 LCD Display along with the name and price of the product.  
At the exit for the verification, the shopkeeper just presses the push button and the total bill is sent to the customer's mobile number and the customer makes the payment with UPI(Unified Payments Interface).
- **Automatic Blackboard / Whiteboard Cleaner System**  
Cleaning blackboards or whiteboards consumes a lot of time while teaching. We here propose an automated blackboard, whiteboard cleaning mechanism that cleans entire boards automatically with just a button click. Our system uses a set of frames, brackets, supporting rods, Dusters, motor, rollers and driving circuitry in order to achieve this mechanism. The system is designed to save a lot of time and unnecessary effort needed in cleaning boards. It is designed to clean boards in a less than half the time required to clean the blackboard/whiteboard by a human. For this purpose we use dusters mounted on shafts which are in turn connected on a supporting frame. These shafts are connected in such a way, so as to provide a proper circular cleaning motion that is needed for cleaning the board. We now use a motor to drive these shafts in required direction. Now we also need to ensure entire board gets cleaned. So we use a set of rollers to mount the upper and lower part of frame in that section. We now use a second motor to drive the entire duster frame in a horizontal motion so that we get the entire board cleaned as the frame reaches the other end of the board. Thus we put forward the design and fabrication of an automatic blackboard/whiteboard cleaner mechanism.

## Achievements & Awards

- Winning district level cricket tournament we won first prize 🏆 (2017)
- Winning anna university cricket tournament we won second prize 🏆 (2020)

## Interests

- Playing cricket
- Playing kabaddi
- Forming works
- Participating social activities
- Gaming
- Cooking

## Languages

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- Tamil Read, speck, write
- English Read,speck,write
- Malayalam Speck only

## Reference

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- **Chelladurai - Durai engineering works (thermal contract)**  
Owner of durai engineering  
Chelladurai324@gmail.com
- **Bala murugan - RUBAN ELECTRICAL**  
Owner of ruban electrical  
rubanelectricalabc@gmail.com

## Additional Information

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An Electrical Engineer designs, develops, tests, and supervises the manufacturing of electrical systems and equipment. This field encompasses a wide range of technologies, including power generation, telecommunications, consumer electronics, and automotive systems. Key responsibilities include analyzing customer feedback, collaborating with project teams, conducting calculations for standards, and ensuring projects meet safety and industry standards.



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