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# INNOVATIVE & APPLICATION ORIENTED PROJECTS ON ELECTRICAL SYSTEMS

**WE ARE OFFERING MAJOR PROJECTS ON 8051/AVR MICROCONTROLLERS**

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# EEE MAJOR PROJECTS

1. INTELLIGENT ONLINE MEASUREMENT AND MANAGEMENT OF ENERGY METER DATA THROUGH ADVANCED WIRELESS NETWORK

2. DEVELOPMENT OF AN POWER TRANSMISSION LINE ONLINE MONITORING SYSTEM

3. PROTECTION AND CONTROL OF LOW VOLTAGE MOTORS USED IN INDUSTRIAL APPLICATIONS

4. ELECTRONIC ENERGY METER WITH INSTANT BILLING

5. SOLAR TRACKING SYSTEM FOR OPTIMAL POWER GENERATION

6. THE TEMPERATURE HUMIDITY MONITORING SYSTEM OF SOIL BASED ON WIRELESS SENSOR NETWORKS

7. MICRO-CONTROLLER BASED CLOSED LOOP CONTROL OF INDUCTION MOTOR USING V/F METHOD

8. LOW COST WIRELESS SENSOR NETWORK FOR IN-FIELD OPERATION MONITORING OF ACMOTOR

9. WIRELESS SECURITY CONTROL SYSTEM & SENSOR NETWORK FOR SMOKE & FIRE DETECTION

10. DESIGN OF SENSOR MODULES OF ACTIVE & INTELLIGENT ENERGY-SAVING SYSTEM

11. MICROCONTROLLER-BASED AUTOMATIC IRRIGATION SYSTEM WITH MOISTURE SENSORS

12. GREEN HOME ENERGY MANAGEMENT SYSTEM THROUGH COMPARISON OF ENERGY USAGE BETWEEN THE SAME KINDS OF HOME APPLIANCES

13. SECURED POWER TRANSMISSION WITH LOSS ANALYSIS

14. AN EFFICIENT MONITORING OF SUBSTATIONS USING RF

15. REMOTE POWER ON/OFF CONTROL AND CURRENT MEASUREMENT FOR HOME ELECTRIC OUTLETS BASED ON A LOW-POWER EMBEDDED BOARD AND ZIGBEE COMMUNICATION

16. MICROCONTROLLER BASED VARIABLE FREQUENCY POWER INVERTER

17. DESIGN AND DEVELOPMENT OF PREPAID ENERGY METER WITH SERIAL DATA TRANSMISSION EMBEDDED SYSTEM FOR IRRIGATION

18. DESIGN OF ULTRA LOW COST CELL PHONE BASED EMBEDDED SYSTEM FOR IRRIGATION

19. DESIGN OF SUBSTATION TEMPERATURE MONITORING SYSTEM BASED ON WIRELESS SENSOR NETWORKS

20. A REMOTE HOME SECURITY SYSTEM BASED ON WIRELESS SENSOR NETWORK USING GSM TECHNOLOGY

21. MICROCONTROLLER BASED CLOCKWISE/ANTICLOCKWISE STEPPER MOTOR CONTROLLER USING PC KEYBOARD VIA COM PORT

22. REALIZATION OF SOLAR WATER HEATING CONTROLLING BOARD

23. A ZIGBEE SMART ENERGY IMPLEMENTATION FOR ENERGY EFFICIENT BUILDINGS

24. DEVELOPMENT OF A SMART POWER METER FOR AMI BASED ON ZIGBEE COMMUNICATION

25. STUDY ON PRECISION WATER SAVING IRRIGATION AUTOMATIC CONTROL SYSTEM BY PLANT PHYSIOLOGY

26. WIRELESS COMMUNICATION SYSTEM FOR ENERGY METER READING

27. MICROCONTROLLER BASED SMART CHARGE CONTROLLER FOR STANDALONE SOLAR PHOTO VOLTAIC POWER SYSTEMS

28. DESIGN OF AN INTELLIGENT SMS BASED REMOTE METERING SYSTEM

29. A WIRELESS DATA ACQUISITION AND TRANSMISSION SYSTEM DESIGN

30. FOUR-QUADRANT CHOPPER DRIVE FOR UNIVERSAL DC MOTOR

31. INFORMATION MODEL AND COMMUNICATION PROTOCOL FOR REMOTE MONITORING OF POWER SUPPLY

32. ENERGY MANAGEMENT WITH ZIGBEE SENSOR NETWORK

33. A NOVEL TECHNIQUE OF AC POWER CONTROL USING MICRO CONTROLLER BASED INVERTER

34. AN ON-LINE MONITORING SYSTEM OF TEMPERATURE OF CONDUCTORS AND FITTINGS BASED ON GSM-SMS AND ZIGBEE

35. GSM BASED DISTRIBUTION TRANSFORMER MONITORING SYSTEM

36. LOW COST MIXED-SIGNAL MICROCONTROLLER BASED POWER MEASUREMENT TECHNIQUE

37. GSM BASED WIRELESS HOME APPLIANCES MONITORING & CONTROL SYSTEM

38. PROTECTION OF POWER TRANSFORMER USING MICROCONTROLLER-BASED RELAY

39. AUTOMATIC ACTIVE PHASE SELECTOR FROM 3-PHASE SUPPLY TO LOAD

40. 3-PHASECIRCUIT BREAKER

41. AUTOMATIC MAINS CHANGEOVER SWITCH FOR UNINTERRUPTED POWER SUPPLY

42. AUTOMATED SYSTEM FOR FAULT ANALYSIS IN INDUSTRIES USING GSM

43. DIGITAL PRE-PAID ENERGY METER USING MIFARE CARD TECHNOLOGY

44. INTELLIGENT POWER SHARING OF TRANSFORMERS WITH AUTO PROTECTION

45. SCADA

46. REMOTE OPERATED SPEED CONTROL OF EXHAUST FAN USING RF/IR

47. WIRELESS POWER GRID CONTROLLER

48. UNINTERRUPTED POWER SUPPLY MANAGEMENT SYSTEM FOR INDUSTRIES USING GSM SMS

49. TWO QUADRANT CHOPPER DRIVE FOR THE DC MOTOR SPEED CONTROL

50. FOUR CHANNEL FAULT ANNUNCIATION FOR INDUSTRIES

51. PWM BASED SPEED CONTROL OF AC MOTOR USING POWER ELECTRONICS DEVICE

52. DISTIBUTED LOAD CONTROL OF AUTONOMOUS RENEWABLE ENERGY SYSTEMS

53. GSM BASED UNIVERSAL MOTOR SPEED CONTROL

54. SECURE REMOTE CONTROL SYSTEM WITH RECEIVER CONTROLLED TO ADD AND DELETE IDENTITY CODES

55. SPEED CONTROL OF UNIVERSAL MOTOR USING IGBT

56. IR REMOTE INTERFACING WITH ZIGBEE FOR HOME AUTOMATION

57. BACK TO BACK SCR'S TO CONTROL THE SPEED OF UNIVERSAL MOTOR

58. MONITORING AND AUTOMATION OF CULTIVATION AND DATA TRANSFER BY USING ZIGBEE

59. REMOTE VEHICLE CONTROLLING THROUGH PC AND DAS

60. AUTOMATIC TEMPERATURE BASED EXHAUST FAN CONTROLLER