

## **ELECTRICAL | ELECTRONICS | WIRELESS | SENSORS | IOT.**

1. ARDUINO WORKPLACE ALCOHOL DETECTOR WITH REPORTING THROUGH GSM
2. BUILDING AUTOMATION WITH VOICE CONTROLLED APPLICATION.
3. DC MICROGRID FOR WIND AND SOLAR ELECTRIC SYSTEM POWER INTEGRATION
4. DETECTION OF OVERHEAT MACHINE BY ALERT.
5. DIGITAL LOCKING SYSTEM PASSWORD FOR TWO WHEELERS.
6. GEO-FENCE WITH GPS MODULE & NODEMCU ESP8266
7. GPS CLOCK USING ARDUINO, GPS MODULE & LCD DISPLAY
8. IOT BASED NOTICE BOARD
9. IOT BASED SMART KITCHEN AUTOMATION & MONITORING WITH ESP8266
10. IOT BASED TDS METER USING ESP8266 FOR WATER QUALITY MONITORING
11. IOT BIDIRECTIONAL COUNTER USING ESP8266 & MQTT VISITOR
12. IOT IR THERMOMETER USING MLX90614 & ESP8266 ON BLYNK
13. PUBLIC GARDEN AUTOMATION
14. RFID BASED PETROL PUMP AUTOMATION SYSTEM
15. SOLAR CHARGE CONTROLLER WORKING USING MICROCONTROLLER
16. SYMMETRICAL H-BRIDGE 7-LEVEL INVERTER
17. TEMPERATURE BASED FAN SPEED CONTROL & MONITORING WITH ARDUINO
18. TOXIC GAS DETECTION USING GSM TECHNOLOGY

19. WIRELESS AC VOLTAGE CONTROLLER WIRELESS CELLPHONE DETECTOR SYSTEM
20. AUTOMATED FLUID CONTROL DEVICE USING SMART PHONE FOR MEDICAL APPLICATION
21. WOMEN AND CHILD SAFETY TRACKER.
22. GAS AND INDUSTRIAL FIRE SAFETY ALARM SYSTEM.
23. SMART HEALTH CARE BOOTH SYSTEM USING IOT.
24. DYNAMIC VOLTAGE RESTORER
25. SOLAR-BASED SED INVERTER.
26. VEGETABLE MANAGEMENT SYSTEM.
27. ENERGY MONITORING AND CONTROLLING INDOOR ALERT SYSTEM.
28. DESIGN AND IMPLEMENTATION OF SMART HOSPITALITY.
29. ENERGY FAILURE AND INDICATION TO ELECTRICITY BOARD.
30. IOT-BASED ASSED NOTICE BOARD.
31. SOLAR-BASED DC TO DC FLYBACK CONVERTER.
32. NEW IMPROVED STRUCTURE LESS SWITCH 15-LEVEL INVERTER.
33. ELECTROMAGNET INDUCTION-BASED ELECTRICITY.
34. SOLAR-BASED HIGHWAY TRANSPORT SYSTEMS
35. MOBILE SIGNAL FINDER.
36. PLANT WATERING SYSTEM.
37. HYBRID POWER GENERATION SYSTEM WITH NO POWER LOSS.
38. AUTOMATED IRRIGATION SYSTEM USING A WIRELESS SENSOR NETWORK FOR SOCIAL MODERNIZATION OF INDIAN AGRICULTURAL SYSTEM
39. DIGITAL LOCKING OF FUEL IGNITION SYSTEM.

40. NEURO FUZZY SLIDING MODE CONTROL TECHNIQUE FOR VOLTAGE TRACKING IN BOOST INVERTER.
41. SELF-BALANCING CONTROL STRATEGY FOR A BATTERY BASED H-BRIDGE MULTILEVEL INVERTER.
42. TESLA COIL BASED WIRELESS POWER TRANSFER.
43. HIGH STEP-UP INTERLEAVED BOOST CONVERTER FOR DISTRIBUTED GENERATION USING RENEWABLE AND ALTERNATIVE POWER SOURCES.
44. ELECTRIC LINE MAN SAFETY WITH PASSWORD BASED CIRCUIT BREAKER.
45. PATIENT HEALTH MONITORING OVER IOT
46. AUTOMATIC ROOM LIGHT CONTROL WITH VISITOR COUNTING FOR POWER SAVING APPLICATIONS.
47. PERFORMANCE ANALYSIS OF HIGH GAIN DC-DC LUO CONVERTER BASED MPPT USING FUZZY LOGIC ALGORITHM
48. IOT FLOOD MONITORING & ALERTING SYSTEM
49. PEAK ENERGY MANAGEMENT USING RENEWABLE INTEGRATED DC MICROGRID.
50. POWER EFFICIENT MINI-INVERTER.
51. RFID BASED SMART SHOPPING SYSTEM
52. PV BASED BATTERY CHARGING SYSTEM:
53. IOT BASED SMART ENERGY METER
54. IOT BASED BLOOD BANK MANAGEMENT SYSTEM:
55. AUTOMATIC SMOKE DETECTOR ALARM
56. ELECTRIC LINE MAN SAFETY WITH PASSWORD BASED CIRCUIT BREAKER

- 57.APFC (AUTOMATIC POWER FACTOR COMPENSATION) FOR INDUSTRIAL POWER USE TO MINIMIZE PENALTY .
- 58.HIGH VOLTAGE DC BY MARX GENERATOR PRINCIPLES.
- 59.WITRICITY – WIRELESS ELECTRICITY
- 60.HIGH EFFICIENT ENERGY THEFT DETECTION WITH REMOTE ALERT SYSTEM (WITHOUT MICROCONTROLLER)
- 61.EARTH FAULT AND SHORT CIRCUIT PROTECTION AND AUTO MAINS TRIP OFF USING CURRENT TRANSFORMER AND OPERATIONAL AMPLIFIER
- 62.PROGRAMMABLE SWITCHING CONTROL FOR INDUSTRIAL AUTOMATION IN REPETITIVE NATURE OF WORK
- 63.SINGLE PHASE TO THREE PHASE CONVERTER
- 64.PYROELECTRIC BASED FIRE ALARM
- 65.ACCIDENT ALERT IN MODERN TRAFFIC SYSTEM WITH CAMERA.
- 66.IMPLEMENTATION OF SOLAR WATER PUMP CONTROL WITH FOUR DIFFERENT TIME SLOTS FOR POWER SAVING APPLICATIONS
- 67.RF CONTROLLED ROBOTIC BOAT TO TRAVEL IN WATER
- 68.3-PHASE LOAD SAFETY IMPLEMENTATION WITH AUTO TURN OFF AND AUTO TURN ON FACILITY
- 69.FOUR QUADRANT DC MOTOR CONTROLS WITHOUT MICROCONTROLLER
- 70.PIR BASED ENERGY CONVERSATION SYSTEM FOR CORPORATE COMPUTERS AND LIGHTING SYSTEM
- 71.DYNAMIC VOLTAGE RESTORER:
- 72.NEXT GENERATION ALTERNATIVE ENERGY STORAGE APPLICATION WITH SUPER CAPACITORS / ULTRA CAPACITORS

- 73.INDUSTRIAL BATTERY CHARGER BY THYRISTOR FIRING ANGLE CONTROL
- 74.SENSOR LESS SPEED CONTROL OF ACTIVE CURRENT INDUCTION MOTOR USING MICROCONTROLLER
- 75.WIRELESS POWER TRANSFER:
- 76.TSUNAMI ALERT SYSTEM FOR FISHERMEN
- 77.SPEED CONTROL OF AC DRIVES USING CONTROLLER
- 78.SOLAR POWERED LED STREET LIGHT WITH INTENSITY CONTROL
- 79.SOLAR ENERGY MEASUREMENT SYSTEM CONVEYED OVER RF USING A PIC MICROCONTROLLER
- 80.PROGRAMMABLE SWITCHING CONTROL FOR INDUSTRIAL AUTOMATION IN REPETITIVE NATURE OF WORK
- 81.PROGRAMABLE ENERGY METER FOR ELECTRICAL LOAD SURVEY
- 82.POWER FAILURE AND FLUCTUATION COMPLAINT REGISTRATION TO TNEB
- 83.PEAK ENERGY MANAGEMENT USING RENEWABLE INTEGRATED DC MICROGRID
- 84.FUZZY LOGIC BASED 1  $\Phi$  INDUCTION MOTOR PROTECTION SYSTEM
- 85.ENERGY FREE ELECTRIC BIKE
- 86.DESIGN OF BUS TRACKING AND FUEL MONITORING SYSTEM

87. AUTOMATED FLUID CONTROL DEVICE USING SMART PHONE FOR MEDICAL APPLICATION
88. IOT BASED VOICE CONTROLLED HOME APPLICATIONS.
89. PROGRAMMABLE SWITCHING CONTROL FOR INDUSTRIAL AUTOMATION IN REPETITIVE NATURE OF WORK
90. OPTIMUM ENERGY MANAGEMENT SYSTEM
91. POWER SAVER FOR INDUSTRIES & COMMERCIAL ESTABLISHMENTS
92. SOLAR ENERGY MEASUREMENT SYSTEM CONVEYED OVER RF USING A PIC MICROCONTROLLER
93. HIGH VOLTAGE DC UP TO 2KV FROM AC BY USING DIODE AND CAPACITORS IN VOLTAGE MULTIPLIER CIRCUIT
94. TRIAC BASED SOUND SCANNER FOR AUDIO-CONTROLLED LOADS
95. EMBEDDED BASED RIGGING FREE ELECTRONIC VOTING SYSTEM WITH INSTANT RESULT.
96. VOICE OPERATED INTELLIGENT ELEVATOR
97. REAL TIME CAR BATTERY AND LOW VOLTAGE ALERT SYSTEM
98. MICROHYDEL POWER GENERATION SYSTEM FOR BUILDING ROOF RAIN WATER FLOW TO POWER AC/DC LOADS WITH BATTERY REVERSE CHARGE PROTECTION
99. AUTOMATIC TRANSFORMER DISTRIBUTION AND LOAD SHARING SYSTEM.
100. TRANSFORMER LESS SOLID STATE POWER SUPPLY DESIGN

101. H-BRIDGE IMPLEMENTATION FOR DC MOTOR DIRECTION CONTROL
102. INVERTER WITH BATTERY LOW AND OVER LOAD INDICATOR
103. MINIATURE THERMAL POWER PLANT USING TEP TRANSDUCER FOR DOMESTIC AND INDUSTRIAL APPLICATIONS.
104. MICROHYDEL POWER GENERATION SYSTEM FOR BUILDING ROOF RAIN WATER FLOW TO POWER AC/DC LOADS WITH BATTERY REVERSE CHARGE PROTECTION
105. PC BASED ELECTRICAL LOAD CONTROL
106. INTEGRATED ENERGY MANAGEMENT SYSTEM BASED ON GSM WITH USER PROGRAMMABLE NUMBER FEATURES AND ACKNOWLEDGEMENT FEATURES
107. AUTOMATIC STAR DELTA STARTER USING RELAYS AND ADJUSTABLE ELECTRONIC TIMER FOR INDUCTION MOTOR
108. XBEE BASED REMOTE MONITORING OF 3 PARAMETERS ON TRANSFORMER / GENERATOR HEALTH
109. PRINCIPLE WORKING OF ELECTROMAGNETIC INDUCTION
110. ELECTRONIC MAIL BOXES WITH SMS NOTIFICATION
111. AUTOMATIC RAIN WATER SENSING WINDSHIELD WIPER
112. NFC BASED INTELLIGENT SECURITY SYSTEM
113. MOTION BASED AUTOMATIC DOOR OPENER
114. SPHERICAL ROBOT
115. AC POWER STRENGTH CONTROLLER SYSTEM
116. RESONANT INVERTER FOR INDUCTION HEATING APPLICATIONS

- 117. IMPLEMENTATION OF SOLAR INVERTER
- 118. CHARGE AND LOAD PROTECTION IN SOLAR POWER MANAGEMENT
- 119. SOLAR BASED HIGHWAY TRANSPORT SYSTEMS
- 120.IMPLEMENTATION OF LASER MUSIC SYSTEM:
- 121.DESIGN AND IMPLEMENTATION OF AN LCD SCREEN DIGITAL STOP WATCH WITH MICROCONTROLLER
- 122.INCOMING CALL INDICATION FOR MOBILE
- 123.LOW COST FIRE ALARM SYSTEM
- 124.ELECTRICITY GENERATION FROM SPEED BREAKERS
- 125.AUTOMATIC PLANT WATERING SYSTEM
- 126.8051 MICROCONTRLLER BASED DIGITAL VOLTMETER
- 127.THREE PHASE INDUCTION MOTOR SPEED CONTROL USING PWM TECHNIQUE

**CONTACT US**  
**Power Integrated Solutions**

**No:10A/3, Radhakrishna Colony,  
Sastri Road, Thennur, Trichy-17.**

**Mail to: [contact@powerintegrated.in](mailto:contact@powerintegrated.in) /**

**Visit to: [www.powerintegrated.in](http://www.powerintegrated.in)**

**Call us: 0431-4340778 / 7639385448 / 8056464203 / 9566377454.**