

List of Mini Projects

1. Password based circuit breaker
2. Solar Powered Density Based Traffic Signal System using Arduino
3. Human Detection System based on PIR sensor
4. Real time based solar irradiance measurement using I2C protocol based on RTC
5. Solar Powered Pulserate Monitor
6. Solar Street light with dusk to dawn feature
7. Energy efficient solar home lighting system
8. Microcontroller based automatic active phase selector for a single phase load from a three phase supply
9. Bidirectional visitor counter in shopping mall with solar powered supply
10. Ir (infrared) sensor based intelligent hand dryer with hot air blower
11. Protection of high voltage transformer from overheating of oil
12. Timer based power cut off system for industrial sewing/packaging machines
13. A Portable solar powered Microcontroller based auto circuit testing machine
14. Constant Voltage DC-DC Converter for Variable solar Power
15. Solar water pump control with four different time slots for energy saving applications
16. DC Energy meter reading for a solar system
17. Digital Voltmeter and ammeter for solar applications
18. Solar panel cleaning system using arduino
19. Automatic solar street light control using arduino
20. Solar Powered water tank over flow Protection
21. Solar Powered Automatic water flushing system in Trains
22. Temperature sensing and automatic exhaust system powered by solar
23. Solar powered automatic door opening system at shopping malls
24. Speed measurement of rotating object using Arduino
25. Automatic room lighting when sunlight decreases

26. Design of power meter to measure the solar power
27. Human detection system based on PIR sensor
28. Measurement of resistance in milliohms using Arduino
29. Solar powered touch alarm bell system
30. Distance measurement system for a solar system site visit
31. Solar powered Electronic Voting Machine
32. Automatic change over switch used for solar system
33. Solar I-V Tracer
34. Solar fountain with speed changes
35. Automatic series parallel connection of solar panels
36. Design of solar inverter circuit for Homes
37. Solar Energy based Cooker
38. GSM Based flexible calling system for coal Minig workers
39. Farmer Friendly solar based Electric fence for rural Agriculture
40. Solar charging Handbag
41. Solar powerd density based Traffic signal system using Arduino
42. Constant voltage DC-DC Converter for variable solar power
43. Solar water pump control with four different times slots for Energy saving applications
44. Designe of power meter to measure solar power
45. Solar powers Electronic Voting machine
46. Solar Street Light with dusk to dawn feature
47. Energy Efficient solar Home Lighting System
48. Solar Powerd water tank over flow protection
49. Solar powered pulse rate monitor
50. Solar Street light with dusk to dawn feature
51. Energy efficient solar home lighting system
52. Protection of high voltage transformer from overheating of oil
53. A portable solar powered microcontroller based auto circuit testing machine
54. Solar powered density based traffic signal system using arduino

55. Constant voltage DC-DC converter for variable solar power
56. Solar water pump control with four different time slots for energy saving applications
57. DC energy meter reading for a solar system
58. Solar Street light with dusk to dawn feature
59. A Portable solar powered Microcontroller based auto circuit testing machine
60. Constant Voltage DC-DC Converter for Variable solar Power
61. Solar Powered water tank over flow Protection
62. Solar Powered Automatic water flushing system in Trains
63. Temperature sensing and automatic exhaust system powered by solar
64. Automatic series parallel connection of solar panels
65. Solar powered Electronic Voting Machine
66. Design of power meter to measure the solar power
67. Automatic change over switch used for solar system
68. Solar water pump control with four different time slots for energy saving applications
69. Solar panel cleaning system using arduino
70. Automatic solar street light control using arduino
71. Solar Powered water tank over flow Protection
72. Solar Powered Automatic water flushing system in Trains
73. Temperature sensing and automatic exhaust system powered by solar
74. Solar powered automatic door opening system at shopping malls
75. Speed measurement of rotating object using Arduino
76. Automatic room lighting when sunlight decreases
77. Design of power meter to measure the solar power
78. Measurement of resistance in milliohms using Arduino
79. Solar powered touch alarm bell system
80. Distance measurement system for a solar system site
81. Solar powered Electronic Voting Machine
82. Automatic change over switch used for solar system
83. Solar I-V Tracer

84. Solar fountain with speed changes
85. Automatic series parallel connection of solar panels
86. Password based circuit breaker
87. Solar Powered Density Based Traffic Signal System using Arduino
88. Human Detection System based on PIR sensor
89. Real time based solar irradiance measurement using I2C protocol based on RTC
90. Solar Powered Pulse rate Monitor
91. Solar Street light with dusk to dawn feature
92. Energy efficient solar home lighting system
93. Microcontroller based automatic active phase selector for a single phase load from a three phase supply
94. Bidirectional visitor counter in shopping mall with solar powered supply
95. Ir (infrared) sensor based intelligent hand dryer with hot air blower
96. Protection of high voltage transformer from overheating of oil
97. Timer based power cut off system for industrial sewing/packaging machine
98. A Portable solar powered Microcontroller based auto circuit testing machine
99. Constant Voltage DC-DC Converter for Variable solar Power
100. Solar water pump control with four different time slots for energy saving applications
101. DC Energy meter reading for a solar system
102. Digital Voltmeter and ammeter for solar applications
103. Password Based Circuit Breaker
104. Density Based Traffic Signal System using Arduino
105. Human Detection System based on PIR sensor
106. Solar Powered Path Finding Vehicle
107. I2C Protocol Implementation with RTC and EEPROM
108. Solar pulse rate monitor
109. Energy efficient solar home lighting system
110. Construction of emergency light with automatic switch ON/OFF and battery protection
111. Solar street light

112. Object counter for battery filling industries with alphanumeric LCD display
113. Solar powered IR sensor based intelligent hand dryer with hot air blower
114. Design of inverter with battery low and overload
115. Power management system in shopping malls with bidirectional visitor counter.
116. Intelligent lighting control system for railway platform
117. Wireless power transmission
118. Timer based automatic power cutoff for industrial sealing/packaging machine
119. Industrial High Voltage transformer protection against overheating of transformer oil
120. Microcontroller based automatic active phase selector for single phase load from a 3 phase supply
121. Object counter for battery filling industries with alphanumeric LCD display
122. Power management system in shopping malls with bidirectional visitor counter.
123. Advanced automatic irrigation system with day and night sensing and auto controlling of motor
124. Making of a Solar Radiation meter and temperature sensor
125. Prototype of solar standalone system using a 5W CFL bulb as a load
126. Auto Turnoff Soldering Iron
127. Arduino Hall Effect Sensor (Gaussmeter)
128. Arduino based tilt detector
129. Air Flow Detector Circuit
130. PIR sensor arduino alarm
131. Wireless power transfer
132. Automatic Energy conservation in laboratory
133. Angle and Distance Measurement Device using
134. Speed of rotating motor using arduino
135. AC to DC LED driver for 12W
136. Metal detector
137. Automatic fan controller
138. Mobile phone detector

139. Electronic eye
140. Unbiased digital dice with leds
141. FM bugger circuit
142. Wireless switch using cd4027
143. Mobile jammer circuit
144. Motion detector
145. Mosquito repellent circuit
146. Automatic shedding system for rain protection
147. Automatic Circumference measurement
148. Automatic Street Light Controller Circuit Using Relays and LDR:
149. Power Line through (AC Mains 230V) Street Light ON/OFF Controlling System
150. Control of elctrical appliances using remote control
151. Producing different frequency nodes using arduino
152. Digital thermometer
153. Interfacing hex keypad
154. Elevator synchronization using arduino
155. Intelligent street light system
156. Line following bot
157. Wireless keyboard
158. Ultrasonic Radar with VGA interface On Krypton Board/arduino, fpga board.
159. Voltmeter using arduino.
160. Compact Calculator on arduino/krypton board Interfacing LCD screen, Hex keypad.
161. Obstacle game on Led matrix/LCD using Arduino.
162. Variable frequency sine wave generator using Arduino
163. Sound note identifier
164. Morse code
165. Infrared based remote switching of AC appliances
166. Timer based switching & pattern of led
167. Microcontroller based auto circuit testing machine

168. PWM LED Dimmer Using NE555
169. Rain Alarm Circuit
170. Variable Voltage Power Supply from Fixed Voltage Regulator
171. 12V to 24V DC Converter Circuit
172. Micro controller Based Standalone Temperature Measurement System.
173. Automatic Rain Operated Wiper
174. Distance measurement using infrared sensor with ADC0804
175. A smart host microcontroller for optimal battery charging

Contact Details

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List of Major Projects

1. Fully Automated Solar Grass Cutter
2. Portable solar powered Microcontroller based auto circuit testing machine
3. Forest Fire Detection Using Optimized Solar - Powered Zigbee Wireless Sensor Networks
4. Wireless Solar Charger
5. Designing of Smart Power Exchange Controller
6. Solar powered alcoholic, temperature detection and GSM based vehicle controlling
7. Automatic solar tracking system according to sun direction
8. P.V. Cell multilevel inverter
9. Home based solar inverter (with 3 lights and one fan controlled)
10. A Nine level stand alone inverter for single phase system
11. A Solar charging station used for different application in Rural areas
12. Designing of a micro grid inverter using battery and PV Hybrid system
13. Solar PWM charge controller used for different types of batteries
14. Home lighting system with Human detection and battery level indicator
15. Solar cycle
16. Automatic active phase selector for a single phase load using 3-ph inverter
17. PV plant ambient parameters(irradiation & temperature) real time monitoring and logging using microcontroller
18. A Solar charging station used for different application in Rural areas
19. Designing of a micro grid inverter using battery and PV Hybrid system
20. Power management of a standalone system by a battery and PV for a DC load
21. Solar power based automatic garbage compactor system and GSM based garbage collection system
22. Solar PWM charge controller used for different types of batteries

23. Analysis of Solar Rooftop model and implementation of 5Wp string based standalone system
24. Mini automation system-Wireless AC load control using TRIAC
25. Industrial process control and real time process status logging for a AC load
26. Home lighting system with Human detection and battery level indicator
27. A Portable solar powered Microcontroller based auto circuit testing machine
28. Automatic temperature based panel cooling mechanism with temperature level display
29. Solar standalone DC system for rural areas and GSM based automatic solar energy meter reading
30. Solar water pump control with four different time slots for energy saving applications
31. 100Watt efficient solar inverter
32. Automated Solar street lightning system
33. Solar cell based mobile phone charger
34. advanced automatic irrigation system with day and night sensing and auto controlling of motor
35. solar timer based automatic power cutoff for industrial sealing/packaging machines
36. Mini UPS system
37. solar powered IR sensor based intelligent hand dryer with hot air blower
38. Micro controller based closed loop temperature controller
39. power management system in shopping malls with bidirectional visitor counter.
40. 3D Solar Tracker
41. home security based on laser lighting system
42. intelligent lighting control system for railway platform
43. Industrial and home security system based on smoke and fire
44. Wireless power transmission
45. Automatic Power failure indication system.
46. Industrial High Voltage transformer protection against overheating of transformer oil
47. Microcontroller based automatic active phase selector for single phase load from a 3 phase supply

48. Intelligent IR based automatic Roadway /Highway lightning system using day light sensor
49. Object counter for battery filling industries with alphanumeric LCD display
50. Timer based automatic power cutoff for industrial sealing/packaging machine
51. Construction of emergency light with automatic switch ON/OFF and battery protection
52. Energy effecient solar home lighting system
53. Construction of emergency light with automatic switch ON/OFF and battery protection
54. Object counter for battery filling industries with alphanumeric LCD display
55. Efficient Mini Solar system for rural areas
56. Temperature adjustment and controlling of solar water heater
57. Solar Tracking Intensity Based System
58. A portable solar power measurement with variable intensity and temperature
59. ZigBee Based Remote Control Automatic Solar Street Light System
60. Performance evaluation of Solar panel with tracking & Monitoring and GSM base panel parameters monitoring.
61. Bidirectional Solar Energy Measurement System(Net-Metering System)
62. 10W MPPT Charge controller
63. A Nine level stand alone inverter for single phase system
64. Automatic active phase selector for a single phase load using 3-ph inverter
65. A Solar charging station used for different application in Rural areas
66. Designing of a micro grid inverter using battery and PV Hybrid system
67. Power management of a standalone system by a battery and PV for a DC load
68. Solar power based automatic garbage compactor system and GSM based garbage collection system
69. Solar PWM charge controller used for different types of batteries
70. Analysis of Solar Rooftop model and implementation of 5Wp string based standalone system
71. Mini automation system-Wireless AC load control using TRIAC
72. Industrial process control and real time process status logging for a AC load

73. Home lighting system with Human detection and battery level indicator
74. A Portable solar powered Microcontroller based auto circuit testing machine
75. Design and Implementation of Solar powered Regulated power Supply (RPS)
76. Automatic temperature based panel cooling mechanism with temperature level display
77. Automatic plant irrigation system with water pump control using zigbee technology
78. Smart wireless temperature data logger using IEEE802.15.4/Zigbee protocol
79. Solar standalone DC system for rural areas and GSM based automatic solar energy meter reading
80. Solar water pump control with four different time slots for energy saving applications
81. 100Watt efficient solar inverter
82. Automated Solar street lightning system
83. Solar powered Speed control of DC motor by PWM using 555timer
84. Solar cell based mobile phone charger
85. Solar fencing
86. Advanced automatic irrigation system with day and night sensing and auto controlling of motor
87. Solar based DC light dimmer using 555timer
88. Solar timer based automatic power cutoff for industrial sealing/packaging machines
89. Mini UPS system
90. Solar powered IR sensor based intelligent hand dryer with hot air blower
91. Micro controller based closed loop temperature control
92. Power management system in shopping malls with bidirectional visitor counter.
93. Alcohol detector with automatic indication for security
94. Home security based on laser lighting system
95. Intelligent lighting control system for railway platform
96. Wireless power transmission
97. Industrial and home security system based on smoke and fire
98. Object counter for battery filling industries with alphanumeric LCD display
99. Automatic Power failure indication system.

100. Triac and Zero crossing detector based lamp dimmer
101. Solar Powered Path Finding Vehicle
102. Construction of cooking gas leakage sensor and alarming system
103. Construction of emergency light with automatic switch ON/OFF and battery protection
104. Door accessing system using stepper motor to authorised people
105. Timer based automatic power cutoff for industrial sealing/packaging machine
106. Intelligent IR based automatic Roadway /Highway lightning system using day light sensor
107. Industrial High Voltage transformer protection against overheating of transformer oil
108. Microcontroller based automatic active phase selector for single phase load from a 3 phase supply
109. Microcontroller based temperature measurement
110. Ultrasonic sensor based travel assistant for blind people
111. Design of inverter with battery low and overload
112. Password Based circuit breaker
113. Density Based Traffic Signal System using Arduino
114. Human Detection System based on PIR sensor
115. Solar digital clock
116. Solar pulse rate monitor
117. Energy effecient solar home lighting system
118. Construction of emergency light with automatic switch ON/OFF and battery protection
119. Object counter for battery filling industries with alphanumeric LCD display
120. solar powered IR sensor based intelligent hand dryer with hot air blower
121. Design of inverter with battery low and overload
122. Solar tracking based on wireless transmission command
123. Solar powered refrigerator with peltier effect
124. Efficient Mini Solar system for rural areas
125. Temperature adjustment and controlling of solar water heater
126. Solar Tracking Intensity Based System

127. A portable solar power measurement with variable intensity and temperature
128. ZigBee Based Remote Control Automatic Solar Street Light System
129. Performance evaluation of Solar panel with tracking & Monitoring and GSM base panel parameters monitoring.
130. Bidirectional Solar Energy Measurement System(Net-Metering System)
131. Four quadrant D.C. motor speed control with microcontroller
132. A New Intelligent Control Terminal Of Solar street light
133. Cyclo converter using thyristors.
134. Smart Host Microcontroller For Optimal Battery Charging In A Solar-Powered Robotic Vehicle
135. automatic temperature based panel cooling mechanism with temperature level display
136. Variable Voltage Power Supply from Fixed voltage regulator
137. Reconfigurable Solar Converter: A Single-Stage Power Conversion Pv-Battery System
138. Detecting power grid synchronization failure on sensing frequency (or) Voltage beyond acceptable range.
139. Closed loop control for a brushless D.C motor to run at exactly entered speed
140. Microcontroller based auto circuit testing machine
141. Portable solar powered Microcontroller based auto circuit testing machine
142. Solar Powered Density Based Traffic Signal System using Arduino
143. Solar Street light with dusk to dawn feature and automatic control using pir sensor
144. Solar powered Electronic Voting Machine
145. Designing of Smart Power Exchange Controller
146. Implementation of 9Wp string based solar stand-alone system and performance measurement
147. Portable solar powered Microcontroller based auto circuit testing machine
148. PV plant ambient parameters (irradiation & temperature) real-time monitoring and logging using microcontroller and cooling the solar panel
149. Single phase to 3 phase conversion system and solar based 7 level inverter design
150. Solar based automatic irrigation system using DC pump

151. Solar power Based automatic garbage compactor system and GSM based garbage collection system

152. Solar powered alcoholic, temperature detection and GSM based vehicle controlling

153. Solar PWM charge controller used for different types of batteries

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