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**Projects with FUTURE WORK / LIVE DEVELOPMENT / FACE TO FACE CLASSES**

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**PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI**

## **LOW COST DIPLOMA ELECTRICAL PROJECTS LIST 2017-2018**

1. Auto Intensity Control of Street Lights using microcontroller
2. Embedded Design for DC Motor Speed Control Unit
3. Auto Power Supply Control System from 4 Different Sources u(Solar, Mains, Generator & Inverter) to Ensure No Break Power using PIC controller
4. Microcontroller based thyristor Controlled Power for Induction Motor
5. ZVS Based Lamp Life Extender using microcontroller
6. Microcontroller based thyristor Firing Angle Controller Based Industrial Battery Charger
7. Ultra Fast Acting Electronic Circuit Breaker using 16F877A
8. Design of Sensing Soil Moisture Content by Auto Irrigation System
9. Automatic Star Delta Starter for Induction Motor Using Relays and Adjustable Electronic Timer
10. Remote Control Device Induction Motor with Bidirectional Rotation
11. Embedded based Precise Digital Temperature Control
12. PC Based Electrical Load Control using microcontroller
13. RF based Domestic Appliances Control with 16F877A
14. Password Based Circuit Breaker using microcontroller
15. Programmable Load Shedding Time Management for Utility Department
16. Embedded based Ultrasonic Object Detection
17. Automatic Street Light which Works Based on the Vehicle Movement
18. Wireless Information Conversion of Tempered Energy Meter to Concerned Authority
19. Programmable Electrical Load Survey Power Meter
20. Minimizing Penalty in Industrial Power Consumption by Engaging APFC Unit
21. Detecting Power Grid Synchronization Failure on Sensing Frequency or Voltage beyond Acceptable Range

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#### PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI

22. Auto Intensity Controlled Solar LED Street Light
23. Embedded based Remote Industrial Plant System Using SCADA
24. Movement Sensed Automatic Door Opening System
25. DTMF Based Load Control System using microcontroller
26. PIC Based Synchronized Traffic Signals
27. Soft Catching Pick N Place Gripper using PIC controller
28. Embedded based Fire Fighting Robotic Vehicle
29. Closed Loop Control for a Brushless DC Motor to Run at the Exactly Entered Speed
30. GSM protocol Integrated Energy Management System
31. Microcontroller based Induction Motor Protection System
32. Garage Door Opening System Controlled By DTMF Cell Phone
33. Underground Cable Fault Distance Locator using controller
34. Embedded based Non Contact Tachometer
35. RFID based attendance system
36. Line Following Robotic Vehicle Using Microcontroller
37. Wireless Power Transfer
38. Energy Meter Reading with Load Control Using GSM
39. Speed Control with RPM Display for BLDC Motor
40. Predefined Speed Control of BLDC Motor using microcontroller
41. Dish Positioning Control by RF Remote
42. Embedded based Hidden Active Cell Phone Detector
43. Railway Track Security System using controller
44. Sun Tracking Solar Panel using microcontroller
45. Embedded based IR Obstacle Detection to Actuate Load
46. PIC controller Based Automatic Dusk to Dawn
47. Thermistor Based Temperature Control using controller

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#### PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI

48. Tripping Mechanism of Over Voltage or Under Voltage Systems using microcontroller
49. Incoming Phone Ring Light Flasher
50. Solar Power Charge Controller using microcontroller
51. Controller based wire Loop Breaking Alarm Signal
52. Touch Controlled Load Switch using microcontroller
53. Time Delay Based Relay Operated Load using microcontroller
54. Embedded based Precise Illumination Control of Lamp
55. Sine Pulse Width Modulation (SPWM)using controller
56. Home Automation System Using Digital Control system
57. Intelligent Overhead Tank Water Level Indicator using controller
58. PIC Controller Based Speed Synchronization of Motors in Industries
59. Pre Stampede Monitoring and Alarm System with PIC controller
60. Touch Screen Based Industrial Load Switching using controller
61. DC Motor Control with Four Quadrants using microcontroller
62. Detect Rash Driving Speed Checker System on Highways
63. Touch Screen Based Home Automation System
64. RF Based Home Automation System using microcontroller
65. Embedded based Sleep monitoring system
66. Optical locking system using microcontroller
67. Automatic petrol bunk using PIC16F877A
68. Embedded based Obstacle Avoidance Robotic Vehicle
69. Solar Powered Auto Irrigation System using microcontroller
70. Industries and Commercial Establishments with Power Saver system
71. Microcontroller Based Auto Metro Train to Shuttle between Stations
72. Designing of Remote Controlled Robotic Vehicle for Stores Management with TouchScreen
73. Embedded based Metal Detector Robotic Vehicle

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74. Electronic Soft Start for single Phase Induction Motor using controller
75. RFID Based Passport Details with LCD
76. Beacon Flasher Using Microcontroller
77. Embedded based FM Controlled Robotic Vehicle
78. Automatic bell system for institutions using RTC and controller
79. GSM based controlled robotic vehicle using microcontroller
80. Pic microcontroller based device control and authentication by using RFID
81. Automatic Street lights ON with detecting vehicle movement with microcontroller
82. PIC based density based traffic signal system
83. Solar energy measurement system using microcontroller
84. Microcontroller based reversible D.C. Motor control
85. Moving message display PIC Microcontroller
86. Stepper motor control using microcontroller
87. Microcontroller based code lock using at 16F877A
88. Microprocessor-based home security system
89. Micro controller based temperature meter
90. Micro controller based heartbeat monitor
91. Ultrasonic rangefinder using PIC micro controller
92. Micro controller based pathfinder
93. Micro controller based robot.
94. Micro controller auto dialer using GSM.
95. Micro controller based water level indicator
96. Micro controller based wireless home automation
97. Digital clock with alarm using micro controller
98. Ultrasonic distance meter using microcontroller
99. Embedded based pre-paid car parking system
100. Multilevel car parking by microcontroller unit

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101. Micro controller temperature meter
102. Infrared remote controller system using 16F877A
103. Ultrasonic movement detector by controller unit
104. Microcontroller based tachometer
105. Microcontroller based visitor counter
106. PWM control of dc motor using 16f877A
107. An intelligent ambulance car which control to traffic light
108. Pre-paid energy meter using microcontroller
109. Micro controller based line follower or tracing robot
110. Automated walking robot controlled by Microcontroller unit
111. Auto braking system using microcontroller
112. Automatic railway crossing gate controller
113. Accurate room temperature controller project
114. Automatic light intensity controller by external light sensing
115. Vehicle movement based street lights with external light sensing
116. Embedded based Alcohol sensing alert with engine locking project
117. Prepaid energy meter with theft detection using microcontroller
118. Pc based home automation using controller
119. Embedded based human speed detection system
120. Smart wireless battery charging with charge monitor project
121. Embedded based Fully automated solar grass cutter
122. Microcontroller based Machine overheat detection with alert
123. Home and industrial safety using fire and gas detection system
124. RF controlled spy robot with night vision camera
125. GSM based industry protection system
126. Automated visitor counter with LCD display
127. Vehicle theft detection/notification with remote engine locking
128. Android controlled automobile

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129. Home automation using android
130. Embedded based Voice controlled robotic vehicle
131. Automated elevator with overload alert system using controller
132. Accurate room temperature controller using controller
133. GSM based weather reporting (temperature/light/humidity)
134. Fingerprint authenticated device switcher
135. Fingerprint based exam hall authentication
136. GSM Based Home Automation
137. Remote Controlled Automobile Using RF and controller
138. Electronic Notice Board Controlled By GSM
139. Embedded based Rain sensing automatic car wiper
140. Wireless red signal alerting for trains using PIC controller
141. GSM stepper motor speed & direction controller
142. Embedded based Fingerprint voting system
143. Motion based message conveyer for paralytic/disabled people
144. RF based secure door opener system with microcontroller
145. Billing system based on RFID
146. RFID based medicine expiry date finder
147. Power generation from dance hall stage using piezoelectric
148. Tsunami warning using embedded system
149. GSM patient health monitoring
150. Remote stepper motor controller system
151. Dam operation based on water level using microcontroller
152. Alcohol sensing display with alarm system using controller
153. Automatic unauthorized parking detector with SMS notification to owner
154. Embedded based RTC pump switcher
155. Ultrasonic blind walking stick using microcontroller
156. Fire plus hazardous gas detection and instant SMS alerting system

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157. Remote controlled robotic arm using RF and controller
158. Android controlled robotic arm by PIC controller
159. LPG gas accident prevention with GSM alert
160. GSM based door Unlocked system
161. Auto lap time measurement system using controller
162. Embedded based SMS voting system
163. Prepaid electricity billing meter using LCD and controller
164. CNG/LPG gas leakage accident prevention system
165. Robotic vehicle with metal detection project
166. Programmable sequential load operation controlled by android application project
167. Car over speeding detection system by microcontroller
168. Android password based remote door opener system using controller
169. Android controlled remote password security
170. Robot controlled by android application
171. Security access control using RFID project
172. Home appliance control using android application project
173. Anti stampede monitoring and alarm unit using microcontroller
174. Attendance system based on RFID
175. Commercial power saver system using microcontroller
176. Industry power consumption penalty minimization using of pc unit project
177. Embedded based obstacle avoider robotic vehicle
178. Precise digital temperature controller using PIC 16F877A
179. Industry temperature control system by controller
180. Embedded based speech detector robotic vehicle control
181. Robotic arm vehicle controlled by touch screen display
182. Android controlled pick and place robotic arm vehicle project
183. GPS and GSM based advanced vehicle tracking system project

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184. Monthly electricity billing display with bill SMS feature using microcontroller
185. Power meter billing plus load control using GSM and controller
186. Energy management system with programmable numbers using GSM
187. SMS controlled railway level gate control with programmable numbers
188. Embedded based Instant electric circuit breaker
189. Zero contact tachometer (speedometer) using PIC microcontroller
190. Power grid failure detection based on voltage and frequency variance detection
191. Microcontroller based 4 quadrant speed control system
192. Car parking project based on RFID
193. Embedded based car speed checker with led display
194. Anti Drowning System with Remote Alert using controller
195. Fire & Gas Accident Avoider System using microcontroller
196. Solar UPS system using microcontroller
197. GPS Vehicle Tracking & Theft Detection by microcontroller
198. Automated Car Parking With Empty Slot Detection
199. Android Antenna Positioning System
200. Hand Motion Controlled Robotic Arm using controller
201. Embedded based DC Motor Speed Control by Android
202. Talking alarm with own voice using controller
203. Embedded based motion detection by live body sensor
204. Android Circuit Breaker using PIC controller
205. Talking energy meter using microcontroller
206. Industry Process Automation Using Programmable Switching
207. Heart Attack Detection by Heart Beat Sensing using microcontroller
208. Low-cost voice-based room appliance controller for physically challenged
209. Energy saver for class rooms using IR sensor and controller

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210. Helmet based vehicle safety system by PIC controller
211. Wireless transformer monitoring system
212. Embedded based digital drips monitor & alarm system
213. Patient monitoring system using microcontroller
214. Embedded based Pulse rate monitoring system
215. Fetal heart beat monitor using controller
216. Controller based Gas detecting robot
217. Configurable Medication Reminding System using RTC and controller
218. Electrical Load Controlled By PC using controller
219. Displaying Moving Message on Notice Board Using PC
220. Efficient Power Manager Project by controller
221. IR Based Obstacle Detection for Load Switching Project
222. AC Power Strength Controller System by microcontroller
223. Embedded based Irrigation System running on Solar Power
224. Embedded System to Measure Solar Power
225. Controlling Solar Energy Charge using PIC controller
226. Single Phase Induction Motor with Smooth Start using controller
227. Configurable Password Security System by controller
228. Supervisory Controlling plus Data Acquisition for Remote Industry
229. Embedded based Liquid Level Controller System without Contact
230. Closed Loop DC Motor Control to Run It at Exact Speed with controller
231. Remote Vehicle Control through Cell Phone
232. DTMF Cell Phone Based Door Opener
233. RPM Display for BLDC Motor with Speed Controller
234. Remote Controlled Induction Motor Controller
235. Patient Health Check Using Wireless Health Monitor
236. Microcontroller based ZVS Based 3 Stage Solid State Relay
237. Embedded based DC Motor Speed Controller

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238. Extending Life of Lamps Using Zero Voltage Switching with controller
239. Auto Irrigation using soil moisture sensor and controller
240. Accident Identification and alerting project
241. Agricultural Robot Project using microcontroller
242. IR Lighting Controller system by PIC 16F877a
243. Wireless Surveillance Robot Controlled by PC
244. Controller based bike security anti theft system
245. Mobile Charging On Coin Insertion using controller
246. Early Flood Detection System based on microcontroller
247. Embedded based Audible thermometer
248. Handheld hill and mountain height measurement system
249. Automated urban drinking water supply control and theft detection
250. Ultrasonic Navigation for the Blind based on microcontroller
251. Fuel theft detection using microcontroller
252. Dusk to dawn controller using microcontroller
253. Sewage treatment plant by controller
254. Home Security using GSM and controller
255. Automatic Toll Collection system using controller
256. Design of a bus status identification system by microcontroller
257. An intelligent ambulance car which control to traffic light
258. Automatic railway crossing gate controller system using controller
259. Infrared burglar alarm with timer based on microcontroller
260. Embedded based Temperature controlled fan
261. Controller based School zone activator but not on holidays
262. Automated Water Pump with Dry Run Intimation using GSM
263. Automatic station alert system in trains using controller
264. Embedded based coin operated milk booth
265. Embedded based fall detection for patients

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266. Solar charger for mobile devices using controller
267. Boundary detector for sailor using GPS and controller
268. Bag snatching alarm with RFID and PIC controller
269. Open sump alarm for homes and apartments using microcontroller
270. Blind stick with voice alert system using controller
271. Embedded based thickness measurement system using ultrasound
272. Power quality monitoring system using controller
273. Moisture control system using microcontroller
274. Power generation using mini windmill and monitoring system
275. Embedded based laptop theft identifier
276. Eye blink sensing and accident preventer using microcontroller
277. Vehicle key reminder using RF modules
278. Door bell flasher for the deaf using RF
279. Mobile phone sniffer with microcontroller
280. Digital drips monitor & alarm using controller
281. Embedded based Tea/coffee vending machine without model
282. Controller based object detection & vibration alert for blind
283. Light dim & dip control for auto mobile using controller
284. Arduino Based Auto Intensity Control of Street Lights
285. Arduino Based Home Automation
286. Arduino Based Home Security System
287. Arduino Based Temperature Controller
288. Arduino Based Water Level Controller
289. RFID Access Control System by using microcontroller
290. RFID based Attendance System Embedded Projects
291. Street Lights that Glow on Detecting Vehicle Movement
292. Bluetooth Controlled Electronic Home Appliances in Embedded System

Projects

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293. Wireless Electronic Notice Board with Microcontroller and GSM
294. PWM based DC Motor Speed Control with Microcontroller
295. Sun Tracking Solar Panel using Stepper Motor and controller unit
296. Automatic Dialing to Any Telephone on Detecting Burglary
297. Automatic Door Opening System by Movement Sense using controller
298. Automatic Room light Controller with Visitor Counter by using microcontroller
299. Wireless Power Driven Car or Train using controller
300. Automatic Wireless Health Monitoring System in Hospitals for Patients
301. Bidirectional Rotation of an Induction Motor with a Remote Control Device
302. Electronic Voting Machine with PIC Microcontroller
303. Four Quadrant DC Motor Speed Control using Microcontroller
304. GSM Based Energy Meter Reading by Load Control
305. Keypad based simple electronic lock with microcontroller
306. Microcontroller based Production of line monitoring system.
307. Unmanned toll taxi using RFID and microcontroller
308. Wireless bus information system for providing blind people.
309. Microcontroller based automatic temperature controller with cooling system.
310. Remote controlled AC/DC motor speed controlling system.
311. RFID based identification of ATM card loss using GSM and microcontroller.
312. Microcontroller based automatic railways signaling system.
313. Microcontroller based automatic moisture and light control system for garden.
314. Microcontroller based automatic power theft identifier.
315. Microcontroller based conveyor automation.

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316. Microcontroller based building security system.
317. Microcontroller based digital password car parking system for apartment.
318. Microcontroller based digital locking system (password) for two wheeler.
319. Microcontroller based gas leakage detecting and auto dialing.
320. Bus identification system for visually impaired people using RFID and controller.
321. Automatic traffic controller for VIP vehicles and Ambulance.
322. Remote distribution transformer monitoring and controlling system using FM
323. Automatic drunk and drive avoiding system for automobile.
324. GSM based electrical appliances controlling system.
325. Automatic vehicle over speed indication and controlling system.
326. Microcontroller based automatic medicine an announcement system.

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