

Desire Automation

Innovation | Creation | Implementation

Some PLC based project ideas

1. *PLC BASED MANLESS RAILWAY GATE CROSSING.*
2. *PLC BASED AUTOMATIC CAR PARKING SYSTEM-MULTI LEVEL.*
3. *PLC BASED AUTOMATIC FIRE FIGHTING SYSTEM(ENUNCIATOR SYSTEM, WATER SPRINKLING BASED)*
4. *PLC BASED AUTOMATIC ALARM SYSTEMS IN PLANTS(INDICATION, ENUNCIATION,MESSAGE)*
5. *PLC BASED AUTOMATIC BOTTLE FILLING APPLICATION (WATER, CHEMICAL, PAINT, OIL BASED)*
6. *PLC BASED AUTOMATIC SECURITY SYSTEM (CAR, HOME, OFFICE, APPARTMENTS BASED)*
7. *PLC BASED AUTOMATIC COUNTING SYSTEM(WATER PLANT, BEVARAGE INDUSTRY, PHARMACEUTICAL BASED)*
8. *PLC BASED AUTOMATIC CONTROLLING OF PARAMETERS (TEMPERATURE, LEVEL, PRESSURE, FLOW, etc.,)*
9. *PLC BASED AUTOMATIC WASHING MACHINE CONTROL(MOTOR SPINNING, TIMMING, etc.,)*
10. *PLC BASED AUTOMATIC MIXING APPLICATIONS (CHOCOLATE, CHEMICAL INDUSTRIES BASED)*
11. *PLC BASED AUTOMATIC DAM SHUTTER OPEN/CLOSE SYSTEM*
12. *PLC BASED AUTOMATIC MULTI-MACHINE LUBRICATION SYSTEM*
13. *PLC BASED IRRIGATION CONTROLLER IN AGRICULTURE*
14. *PLC BASED DOOR OPEN AND CLOSING SYSTEM*
15. *PLC BASED BOILER PRESSURE MONITORING AND CONTROLLING SYSTEM*
16. *PLC BASED MULTI-CHANNEL TEMPERATURE MONITORING AND CONTROLLING SYSTEM*
17. *PLC BASED LEVEL CONTROL SYSTEM*

18. *PLC BASED AUTOMATIC DRILLING SET UP*
19. *PLC BASED ELEVATOR SYSTEM*
20. *PLC BASED AUTOMATIC PACKING MACHINE*
21. *PLC Based Industrial Timer Controller*
22. *PLC based phase sequence indication and controlling system*
23. *PLC Based Automatic Industrial Drainage Timer*
24. *PLC Based Industrial Monitoring system*
25. *PLC Based Temperature Controller*
26. *PLC Based Traffic Density Control Using Sensor*
27. *PLC Based Pressure Controller*
28. *PLC Based Elevator Controller*
29. *PLC Based Automatic Bottle Filling System*
30. *PLC based multi-channel fire alarm system*
31. *PLC based automatic guided vehicle*
32. *PLC Based Automatic Car Washing System*
33. *PLC Based Pick And Place Robot*
34. *PLC Based D.C Motor Speed Monitoring system*
35. *PLC Based Filter Reactor In Sugar Factory*
36. *PLC based automatic packing control machine*
37. *PLC based multi-channel temperature monitoring and controlling system*
38. *PLC based door open and closing system*

39. *PLC based four axis welding robot*
40. *PLC based traffic density controller using sensor*
41. *PLC Based Energy Saving System*
42. *PLC based double axis crane*
43. *PLC based automatic dam shutter open/close system*
44. *PLC based industrial timer controller for multiple machines*
45. *PLC Based Automatic Car Parking System*
46. *PLC Based Automatic Coffee Vending Machine*
47. *PLC Based Online Inspection Machine*
48. *Boiler Automation Using PLC*
49. *PLC Based Plate Cutting Machine*
50. *PLC Based Material Trolley Controller*
51. *PLC Based Powder Coating Machine Controller*
52. *PLC based industrial or home security system*
53. *PLC based A.C motor controlling system*
54. *PLC based automatic punching machine*
55. *PLC based wireless energy meter*
56. *PLC based automatic industrial or school or college time management system*
57. *PLC based irrigation controller for garden*
58. *PLC based automatic traffic and street light controller*
59. *PLC based injection Moulding machine controller*

60. *PLC based home appliances controlling system*
61. *PLC based automatic Multi-machine Lubrication System*
62. *PLC based Finger print based voting machine*
63. *PLC based automatic power factor controlling system*
64. *PLC Based Automatic Track Guided vehicle (ATGV)*
65. *PLC Based Automatic Vehicle Accident information system*
66. *PLC Based Moving Message Display*
67. *PLC Based Automatic Humidification system*
68. *PLC based automatic visitor guided vehicle*
69. *PLC based banking system*
70. *PLC Based Incubator*
71. *PLC Based voice controlled Machines*
72. *PLC Based Railway track crack Detecting Vehicle*
73. *PLC Based Unaided Guided Vehicle (UGV)*
74. *PLC based automatic paint marking machine*
75. *PLC Based multiple transformer fault detection and production system*
76. *PLC Based Gas leakage detection and auto dialing*
77. *PLC Based Railways Accident Avoiding System*
78. *PLC Based Intelligent Braking System*
79. *PLC Based Automated Guided Vehicle (AGV)*
80. *PLC Based Self centering Four-jaw Chuck*

81. *PLC Based Automatic Water Level Indicator and Controlling System*
82. *PLC Based Digital Fuel Level Indicator Sensor Based Automatic steering control system for Automobile*
83. *PLC Based Automatic Electro-Plating Coating System*
84. *PLC Based automatic glucose flow rate controller*
85. *PLC based mini-computer dictionary*
86. *PLC Based mono rail system Coin box based water filling system*
87. *PLC based wireless energy transmitter with power cutoff system*
88. *PLC Based Fire Fighting AGV*
89. *PLC Based Automatic medicine announcement system*
90. *PLC Based Power Management System*
91. *Automatic Vehicle Over Speed Indication and Controlling System*
92. *PLC Based Automatic Traffic and Street Light Controlling System*
93. *PLC based talking key pad for blind people*
94. *PLC Based Phase sequence indicator and controlling System*
95. *PLC Based Two Wheeler Automation with Security System*
96. *PLC Based Automatic college bell with announcement System*
97. *PLC based digital gear level indicator*
98. *PLC Based Sensor Operated Path Finder Vehicle*
99. *PLC Based Dam water level Indicator and Controlling System*
100. *PLC based boiler pressure monitoring and controlling system*

Latest PLC Based Projects

PLC based automatic Multi-machine Lubrication System
PLC based industrial timer controller for multiple machines
PLC based wireless energy meter
[PLC Based sequential batch process](#)
[PLC Based Traffic Light Controller project](#)
PLC based industrial or home security system
PLC based automatic bottle filling System
PLC based phase sequence indication and controlling system
PLC based boiler pressure monitoring and controlling system
[Flexible I/O Interface in Industrial Control System Using PLC](#)
PLC based automatic dam shutter open/close system
PLC based double axis crane
PLC based traffic density controller using sensor
PLC based irrigation controller for garden
PLC Based Automatic Sheet Laminator
PLC based Cold Lamination System.
PLC based automatic industrial or school or college time management system
Mine water level fuzzy control system design based on PLC
PLC based automatic car parking system
PLC based door open and closing system
PLC based A.C or D.C motor controlling system
PLC based four axis welding robot
PLC based automatic guided vehicle
PLC based automatic packing control machine
PLC based phase sequence indication and controlling system
PLC based boiler pressure monitoring and controlling system
PLC based multi-channel temperature monitoring and controlling system
PLC based double axis crane
PLC based four axis welding robot

Automation & Control Project Topics for Final Year Students

These are very good project ideas for Automation & control and for those students who are making there project based on PLC. Some of these project topics are from IEEE

- 1 Research on the automatic detection system for cracked egg based on LABVIEW
- 2 Automatic control of a headstock gear based on PLC for water conservancy
- 3 Lab VIEW-base automatic rising and falling speed control of stepper motor
- 4 Low voltage motor protection & control – industrial Process applications
- 5 Wireless Machine Monitoring And Control For Educational Purpose
- 6 Labview based mobile robot navigation system
- 7 Wireless health monitoring system
- 8 Wireless Measurement and Control System for Environmental Parameters in Greenhouse
- 9 Design for Battery Energy Manage System Based on LABVIEW
- 10 Automating the Residential Thermostat Based on House Occupancy
- 11 Application of Real-time Control System Using LABVIEW in Distance-Learning
- 12 Application of Prognostic and Health Management Technology on Aircraft Fuel System
- 13 Human-Observation-Based Extraction of Path Patterns for Mobile Robot Navigation
- 14 Improvement of Heat Furnace Temperature Control System Via Model Free Control Method
- 15 A High-Efficiency Dimmable LED Driver for Low-Power Lighting Applications
- 16 Design of Health Relaxation System based on Biofeedback from Finger Sensors
- 17 Multiphase Power Converter Drive for Fault - Tolerant Machine Development in Aerospace Applications
- 18 Early Detection Method of Corrosion on Buried Steel Gas Pipeline Using Wireless Sensor Network
- 19 Remote Laboratory Data Management System Based on LabVIEW
- 20 Pressure Sensor Implementation for Head Media Spacing Reduction
- 22 The Design of Home Portable Medical Monitor Based on SCM and Sensor
- 22 A solar panels automatic tracking system based on DELTA PLC
- 23 PLC Based Operation of Three Natural Gas Generator Models - A Learning Aid

for Undergraduate
Students

24 Industrial Application of Nonlinear Model Predictive Control Technology for
Fuel Ethanol

Fermentation Process

25 A Single-Chip CMOS Smoke and Temperature Sensor for an Intelligent Fire
Detector

26 :-XA ZigBee-Based Home Automation System

27 Research on Railway Coach Electric Safety Monitoring System

28 Labview Modeling and simulation of a hydrogen based photovoltaic /wind
energy system

29 Design of ice-storage air conditioning control system based on PLC and
touching screen

30 A high efficiency autonomous street lighting system based On solar energy and
LEDs

31 Real –Time DC Servo Motor Position Control by PID Controllers Using
Labview(2009)

32 FPGA based micro-plc design approach(2009)

33. The Diagnosis System of Mechanical Fault Based on Labview Platform and Its
Application

34 Study of Elevator Safety Performance Test System Based on LABVIEW

35. Modeling Of MEMS Based Temperature Sensor And Temperature Control In A
Petrochemical
Industry Using LabVIEW.

36 A Real-Time Simulation System of Wind Power Based on LabVIEW DSC Module
and
Matlab/Simulink

37 System of Automation of an Industrial Plant of Elaborating and Packing of
Industrial Detergent

38 A web-based distributed measurement system for electrical Power Quality
monitoring

39 Design and Application of Auto-constant Water Supply System

40 Design of Traffic Lights Controlling System Based on PLC and Configuration

Technology

- 41 A Solar Panels Automatic Tracking System Based on OMRON PLC
- 42 A Web-Based Remote Access Laboratory Using SCADA
- 43 Application of Communication and Remote Control in PLC Based on ZigBee Technology
- 44 Development on Automatic Conveying System for Dangerous Goods
- 45 The Design and Implementation of A Low Cost Temperature Control System for Agriculture Greenhouses
- 46 Design of Temperature Control Device Underground Coal Mine Based on AT89S52
- 47 Mine Pump Comprehensive Performance Testing System Based on Labview
- 48 Real –Time DC Servo Motor Position Control by PID Controllers Using Labview
- 49 Application of ZigBee for Pollution Monitoring Caused by Automobile Exhaust Gases
- 50 Design and Implementation of Supervisory Control Schemes in Industrial Automation Systems(2008)
- 51 Implementation of a Labview-Based Automated Wind Tunnel Instrumentation System
- 52 Fault Detection and Protection of Induction Motors Using Sensors
- 53 Integrating a Bed Sensor in a Smart Home Monitoring System
- 54 Real time mailbox alert system via sms or email
- 55 Design and implementation of plc-based monitoring control system for induction motor
- 56 Automated green house status monitoring and control system
- 57 Automatic railway gate control using microcontroller
- 58 Automatic vehicle over speed controlling system for school and college zone
- 59 Boiler automation of Temperature, Water level monitoring & Control System Using PLC
- 60 Brushless DC motor control using PLC
- 61 Design and Application of Auto-constant Water Supply System
- 62 Design and development of an automatic small-scale house For teaching

domestics

63 A Wearable Inductor Channel Design for Blood Pressure Monitoring System in Daily Life

64 Fire exposure and automatic indication system using plc

65 Improvement of Zigbee mobile router for supporting network mobility in healthcare classification

65 Low voltage motor protection & control – industrial Process applications

67 Home appliances control & status indication through alarm

68 Intelligent agricultural system with weather monitoring

69 Microcontroller based power transformer Testing using wireless communication

70. Wireless remote motor starter with acknowledgement using solar energy for agricultural

Application

71 SCADA based industrial fluid parameter monitoring and control system

72 Low voltage motor protection & control – industrial Process applications

73 ICU care taker –life support system using RF with BP& heart beat monitoring

74 Microcontroller based aeronautical crash prevention system through RF communication

75 SCADA implementation for power generator performance and condition monitoring system

76 Power plant scrutinizing system using SCADA

77 A Low-cost Microcontroller-based Wireless ECG-Blood Pressure Tele monitor for Home Care

78 Two Legged Robot Design , Simulation and Realization

79 SCADA system for turbine speed control and management in power plants

80 LabVIEW-base automatic rising and falling Speed control of stepper motor

81 Supervisory Control and Data Acquisition System for Power Distribution systems

82 The Research and Design Of The Belt Grinder Which Based On PLC

83 Unmanned automated car parking for parking area using sensors with PLC

84 Vehicle safety system with fuel and alcohol detection and indication

85 Wireless Measurement and Control System for Environmental Parameters in

Greenhouse

86 PLC-Based Measurement of Electrical Data in Photovoltaic Energy Systems

87 “Smart House” and “Smart-Energy” Applications of Low-Power RFID-based Wireless Sensors

88 Design and Implementation of Intelligent Fault Diagnosis System

Courtesy : Pantech Solutions

EL018 PLC Based Automatic Car Washing System

EL019 PLC Based Pick And Place Robot

EL020 PLC Based D.C Motor Speed Monitoring system

EL021 PLC Based Filter Reactor In Sugar Factory

EL022 PLC based automatic packing control machine

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EL087 PLC Based Dam water level Indicator and Controlling System
EL088 PLC based boiler pressure monitoring and controlling system

[PLC1401 AN EFFICIENT HOME ENERGY MANAGEMENT SYSTEM BASED ON AUTOMATIC METER READING](#)

[PLC1402 STATE SPACE APPROACH CONTROLLER DESIGN FOR PLC BASED PWM DRIVEN VARIABLE SPEED DRIVE](#)

[PLC1403 WATER HAMMER PROTECTION IN WATER SUPPLY SYSTEM A NEW APPROACH WITH PRACTICAL IMPLEMENTATION](#)

[PLC1404 RESEARCH ON THE STRUCTURE AND PLC CONTROL OF A NEW AUTOMATIC TOOL CHANGER](#)

[PLC1405 G H NEM THE NEW ITU T STANDARD ON NARROWBAND PLC TECHNOLOGY](#)

[PLC1406 PLC BASED CONTROL OF REMOTE LABORATORY EXPERIMENTS](#)

[PLC1407 THE RESEARCH OF SPACE TELESCOPE CCD CAMERA IMAGE RESOURCE SIMULATIVE SYSTEM](#)

[PLC1408 RESEARCH AND DEVELOP ON SUBSTATION VOLTAGE AND REACTIVE POWER CONTROL BASED ON EXPERT SYSTEM](#)

[PLC1409 RESEARCH ON COMPLEX GOAF DETECTION TECHNOLOGY FOR MINING CONVERTED FROM UNDERGROUND TO OPEN-PIT BASED ON GPR METHOD](#)

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