Technowave India
A Solution provider Company

PROJECT LIST:

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1. Power Saving Street Light with fog light switching

   - Microcontroller based project
   - Utilizes LDR on street light poles
   - Street light get on through vehicle head light
   - Pressure sensors for pedestrian
   - Humidity sensors for fog light detection

2. High –Tech Toll Tax System by using card

   - LCD based project
   - Issue of money card of RS 100
   - Display of balance in card on the insertion

3. Proportional Integrator and differentiator controller using PIC

   - Proportional integrator and differentiator controlling
   - Temp ,light, humidity controlling
   - PIC microcontroller based controlling

4. Range Finder through Distance sensor

   - PIC microcontroller based
   - Displays the range of any object
   - FND display

5. Attendance Prevention System for school and college

- Microcontroller based project
- Random number generation for each card entry
- Communication between two controllers
- LCD display for attendance

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6.   Automatic Jack Lifting through RF

- Lifting of mechanical jack through relay
- Eliminates manual effort

7. Tri technology security system

- Microcontroller based project
- Three zone security system
- Magnetic, IR,LDR technologies employed
- Day/night mode also available
- Reset facility

8. Data transmit with the help of Laser

- Microcontroller based project
- Data transfer using laser
- LCD display

9.   RF based data transfer

- Microcontroller based project
- Two microcontrollers, transmitter and receiver sections
- Two LCD, transmitter and receiver sections

10.   Automatic Water Tap

- Utilizes solenoid for controlling the flow of water
- Microcontroller based project
- IR sensors for hand detection
- FND display

11. Land mine robot

- Sense mine
- RF based control
- Microcontroller based project

12. Safe distance guard system for blinds

- Measure distance using distance sensor
- Indicates accordingly using sound alarm
- Microcontroller based project

13. Computer controlled temperature meter

- Sense temperature for controlling
- Controls accordingly using relays
- Using PIC Microcontroller

14. Obstacle sensing robot

- Detects obstacles at certain range
- Turns automatically
- Microcontroller based project

15. RFID based animal tracking system

- Microcontroller based project
- FND Display
- Tracking of vehicle using high frequency RF

16. Green House controller

- PIC microcontroller based project
- Controls temperature, light intensity & Humidity for agriculture
- Indication using LCD

17. Solar cell based ups   (not available)

- Converting solar energy to electricity using solar cell

- Making 220 volts ac from 12 volt dc battery with very small delay
- Microcontroller based project

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18. High tension transformer protection

> PIC Micro Controller based project
> Temperature control with the help of two fan
> Automatic power cut when temperature increase
> Automatic power on and fan off when temperature decrease after a certain limit
> LCD based project

19. Online ups

- Microcontroller based project
- Making 220 volts ac from 12 volt dc battery
- LCD Display

20. Internet based home appliance control

- Controls home appliance using computer
- Can also switch devices from different places using internet
- Microcontroller based project.

21. Microcontroller based vehicle security system.

- Cut off ignition when password is not entered
- Indicates using buzzer if somebody try to steal
- Microcontroller based project

22. Speed control of stepper motor

- Driving stepper motor in both directions
- Controlling speed of stepper motor
- Microcontroller based project

23. Eco friendly car   (not available)

- Runs on solar panel
- RF based controlling
- Microcontroller based project
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24. RF based wireless identification system

- Identify different container without contact using rf technology
- Display container no.
- Microcontroller based project

25. Speed change of DC motor with switch

- Microcontroller based project
- FND display
- Utilizes PWM technique

26. Speed change of DC motor with RF
- Microcontroller based project
- FND display
- Utilizes PWM technique
- Utilizes high freq transmitter and receiver

27. Speed change of DC motor with computer
- Microcontroller based project
- FND display
- Utilizes PWM technique
- Utilizes parallel port for speed change

28. Turbine failure protection system using microcontroller for electrical power plant
- Senses basic condition for proper working of turbine and alarms for hazardous Condition
- Microcontroller based accurate sensor controlling
- Cut of the turbine in critical failure condition

29. Fault analysis and detection
- Using PIC Microcontroller for ADC
- Voltage detection
- Current detection

- High volt cut
- Low volt cut
- Overload cut

30. Two Phase Changeover and Automatic Generator Start Stopper
- Micro controller based project
    - If any phase is gone then automatic changeover to another phase
    - If both phases are gone then automatic changeover to the generator
    - If any phase comes back then automatic changeover of generator to that phase.
- Automatically switch on/off the generator according to the two input phases
- Helps in easy handling of the generators.

31. Microcontroller based fire protection system using LDR

- Check for smoke for fire detection
- Automatically turns on water supply for stopping fire
- Microcontroller based project

32. Automatic multilayer car parking system

- This projects indicate whether the parking is full
- Pressure sensing
- Microcontroller based project

33. Field parameter loop controller

- PIC Micro Controller based project
- Industrial field parameter control on site
- Voltage control on field
- Temperature control on field
- Level control
- LCD based project

34. GSM to GSM Contest Voting Machine

- Microcontroller based project
- Connectivity between voting machine and the mobile phone
- Utilizing DTMF technology
- Sensing of voting signal using microcontroller

35. Infrared based telemetry system
        • Infrared based data transferring from one controller to another.
        • Microcontroller based project.
        • Transmit complete alphabets and numerals

36. Solar cell based universal inverter   (not available)

- Converting solar energy to electricity using solar cell
- Making 220 volts ac from 12 volt dc battery
- Microcontroller based project

37. Solar cell based spy robot   (not available)

- Converting solar energy to electricity using solar cell
- A complete rf controlled car
- Microcontroller based project

38. Traffic light signaling controller with micro controller based count
        • down timer display
        • Total time remaining for green light
        • Light indication also
        • FND display

39. Advanced security system with unique feature
        • Micro controller based project
        •On security breach following actions occurs
        • Display warning on FN
        • Automatically dial any number
        • Switch on the buzzer
        • Various levels of security can be implemented like
        Door ; smoke ; open space ; pressure

40. Walking Robot
        ·   Radio frequency based project
        ·   Walking straight
        ·   Move 360°
        ·   Micro controller based neck control

41. Mobile phone controlled electronic voting machine

- Detect connectivity between voting machine and your mobile phone
- GSM based signal carrier
- Sensing of voting signal using microcontroller
- Also include Password protection

42. Mobile phone controlled Land rover robot

- GSM based control signal carrier
- Microcontroller based project
- Move quad directional motion control

43.   Mobile Controller
   Switching of any electrical or electronic equipment control with the help of mobile

- FND display
- Ring sensing section
- Phone off hook section
- DTMF (dual tone multiple frequency based project)

44.   Liquid Level Controller

- Micro controller based project
- Detect liquid level & perform control action
- Display on /off status on FND
- Used in household water tanks

45.   Prepaid energy meter using PIC MICROCONTROLLER

- Measure electrical current and Voltage of supply
- Calculate the power consumed by appliances
- Calculate units consumed
- Deducts the cost from units purchased in advance

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46.   Display Timer for Compressor
- Micro controller based project
- Monitor the input ac line & switch on the ac after 2 min. in case of line discontinuity.
- Helps in protection of compressors in ac & refrigerators.

47.   Telephonic control using DTMF decoding
- Microcontroller based project
- Control up to five electrical & electronics equipments by the telephone line
- Utilizes DTMF detection & decoding
- Password features available with different password for switching on & switching off the device

48.   Grid failure protection system using microcontroller
- Senses all the critical conditions of transformer failure and alarms for hazardous condition
- Accurate Sensor controlling through microcontroller
- Switch of the GRID in critical failure condition

49.   Request Monitoring System
- Micro controller based project
- Request can be taken from 16 locations
- Display request on LED & FND display
- Separate keys are available to make & complete request
- Used in hotels & nursing homes

50.   Caller ID
- Microcontroller based project
- Display the phone number of calling party on FND

51.   Boiler Controller
            • Micro controller based project
            • Motor on / off with the help of relay
            • If temperature rises at setting points then the boiler will be off
            • If temperature down at setting points then the boiler will be start

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52.   Electronic Voting Machine
            • Micro controller based project
            • LCD based display
            • Memory Backup is available

53.   Automatic Railway Crossing Controller
            • Micro controller based project
            • LCD based project
            • Three presser sensor used
            • Railway crossing controller used

54.   Infrared Based Industrial Gates Entry Management System
            • Micro controller based project
            • Record Incoming & Outgoing persons

55.   E-Card entry system
            • Micro controller based project
            • 5 card issue
            • 4 card for right candidate
            • 1 card for wrong candidate
            • If card insert then system check identification
            If card valid then relay on after some time relay off

56.   Advance office Automation
            • Micro controller based project
            • Infrared based
            • Electricity save
            • Automatic appliances control
            • FND display

57.   Rapid event selector
     . Designed for industrial purpose where multiple signals come simultaneously
     . Distinguish which signal or interrupt has arrived first
     . Microcontroller based decision control
     . Functional numerical display included

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58.   Automatic Railway Signaling Through RF
     Microcontroller based project
     RF based signal generation
     Red signal frequency generation and automatic braking
     Green signal frequency generation for continuous operation

59.   Automatic Voltage Corrector
     Stabilizing the voltage
     • Micro controller based project
     • ADC based
     • Controlled output automatically

60.   Metro Train
     • Micro controller based project
     • Display next and previous station

61.   Micro controller based Inverter
     • 89C51 based project
     • Frequency generation with the help of micro controller
      LCD Display

62.   Micro controller based Volt Meter
     • FND display
     • ADC to BCD conversion

63.   Micro controller based Temperature Meter
     • FND display
     • ADC to BCD conversion

64.   Micro controller based Current Meter
     • FND display
     • ADC to BCD

65.   Micro controller based D.C Volt Meter
     • FND display
     • ADC to BCD

66.   . Micro controller Based Auditorium Seat Management System
  • Micro controller project
  • Infrared based
  • Automatic counter
  • Automatic barrier
  • FND display

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67.   Train Collision Prevention and Signaling using RF

  • Prevents collision of trains using switch mechanism
  • Microcontroller based decision control
  • Alarming for dangerous condition
  • Both side indication
  • Both side buzzer
  • FND display
    Automatic Braking of one train using RF

68.   Computer controlled home appliance control

    Microcontroller based project
  • Home appliance control using relay mechanism
  • Parallel port control

69.   Contactless swap card system

  • Checks for card for user identity.
  • Display if card is verified (for single card)
  • Microcontroller based project

70. Vehicle tracking system

  • Microcontroller based project
  • 3 RF zones for vehicle tracking

71.   Computer controlled path finder robot

  • Controlled through parallel port of pc
  • Parallel port controlling program
  • Controlled through radio frequency
  • Microcontroller based code protection system
  • (OPTIONAL WIRELESS CAMERA AND T.V MODULES)

72.   RF controlled robotic arm

- Controlled through parallel port of pc
- parallel port controlling program
- Controlled through radio frequency
- Microcontroller based code protection system

73.   Next generation home appliance control using mobile phone
- GSM based control signal carrier
- Sensing through microcontroller
- Radio Frequency based Wireless home appliance control

74. Voice recognition system   (not available)

- This system sense human voice and take decision according to the command
- Complete voice module
- Microcontroller based project

75. Fuel level indicator

- This project uses an indicator sensor for producing analog value
- No risk of spark
- Microcontroller based project.

76. Disco Light

- Micro controller based project
- Various display formats available on LEDs
- Used in DJs, chaser etc.

77. High Frequency Remote System

- Micro controller based project
- Remote control any equipment at high frequency (30-50MHz)

78. . Fastest Finger First

- Micro controller based project
- Participated by 6 candidates

79. Heart rate monitoring system

- Sense heart beat rate
- Using PIC microcontroller
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80. Microcontroller based Elevator System.   (not available)

- Controls elevator according to commands entered
- Controls door of the elevator

81. Wind mill based electricity generator

- Converts wind energy to electrical energy
- Stores electrical energy in battery
- Convert this energy to 220 volts ac

82. Automatic Propeller Clock   (Not available)

- PIC microcontroller based project
- Displays analog and digital clock
- L ED Based project

83. Co-ordinate system

- Displaying the xy coordinates
- Microcontroller based project
- FND display

84. **Low cost PLC**

- PIC microcontroller based project.
- Lcd Interface for parameter control and setting.
- Machine cut when voltage increase.
- Motor speed control according to temperature.

- When light low then machine off.

85. Railway bridge protection system

- Bridge detection through high frequency.
- Automatic speed control of train.
- 8051-Microcontroller based project.
- Four channel RF transmitter.

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86. Mobile phone controlled examination paper leakage prevention system

- 8051-microcontroller for mobile signal decoding.
- Time stamping for failure prevention.
- Mobile phone based password.
- Good for remote password protection.

87. Automatic Vehicle breaking system.

- High frequency based Danger zone detection.
- Instant Breaking or speed control depending upon danger.
- Back to normal control at the end of danger zone.
- Microcontroller based detection.

88. Contact less frequency measurement system.   (not available)

- Measures frequency of Motors, shafts etc.
- Laser diode based speed detection system.
- Calculates number of revolutions per minute.
- 8051-microcontroller based project.

89. High frequency based telemetry system.

- Reception of data through high frequency.
- Lcd interface for data manipulation.
- PIC-microcontroller based project.

90. Ultrasonic based Distance Monitoring and Fuzzy based   . (not available)

- PIC microcontroller based
- Displays the range of any object
- FND display
- Buzzer for Alarming

91. Micro controller Based Standalone Temperature Measurement System.
    - Micro controller based project
    - Motor on / off with the help of relay
    - If temperature rises at setting points then the boiler will be off
    - If temperature down at setting points then the boiler will be start

92. Remote Motor Speed Control using Cell Phones.
- Microcontroller based project
- Connectivity between Motor and the mobile phone
- Utilizing DTMF technology
- Sensing of speed control signal using microcontroller

93. An ultrasonic obstacle avoidance system for fire fighting robot.
- Detects obstacles at certain range
- Turns automatically
- Microcontroller based project

94. Mobile Password Activation System for industrial applications
- 8051-microcontroller for mobile signal decoding.
- Time stamping for failure prevention.
- Mobile phone based password.
- Good for remote password protection.

95. Data compression using Matlab.
    - Compress data using Huffman coding.
    - Make two files compressed and table file.
    - Decompress the data into original form.

96. face detection in image file using matlab
    - take normal jpg image as input
    - do processing through matlab
    - encircle face in the image in red box
97. Finger print Identification using Matlab.
    - Finger print Identification module.

- Microcontroller for communication.
- Signaling for correct and incorrect fingerprint identification.

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