Dear Engineer,

We at ARK Technosolutions try to bring out the Innovative side in budding engineers by providing them workshops, which emphasise on Practical Knowledge which they do not seek in their daily course as engineers, whether it is their college or books or their coaching classes.

Apart from providing them coaching aid, we also help them with the Final year Major projects or the lower year Mini projects, which they may have to make as a part of their academic curriculum.

So here is a list of a few out of our WIDE range of projects:-

I. **Mini Projects**
   1. Stepper Motor Controller.
   2. Temperature control and monitoring.
   4. Voltage logger.
   5. 8-Channel data acquisition system.
   6. DC Motor Control.
   7. Speed Detection.
   8. D.C power Supply.
   9. Noise alarm
   10. Touch Switch Circuit operated mini projects
   11. Automatic generator of patterned music tones
disco light effect project
   12. Heart beat counter using microcontroller 8051
   13. Microprocessor based Thermometer device.
   15. Wired robot.
   16. Line follower robot.

Other 555 based and 8051 based projects.....

II. **RF/RDIF projects**
   1. Industrial Automation system using RF.
   2. Automatic meter reading system using RF.
   3. Channel RF based remote control.
   4. Robot direction controlling using RF communication.
   5. Electrical apparatus control system in a plant using RF wireless communication.
   6. Speed control of DC motor with pulse width modulation using RF modulation and detection method.
7. Data Acquisition system using RF.
8. Data Communication using RF modules.
9. SMS transmitting using RF modules.
10. Robot control using RF module.
11. Home automation (AC/DC) using RF module.
12. PC based Synchronizing and speed controlling of dc motor (Wireless).
13. Wireless digital code lock with a status display.
15. Remote controlling of PC using your own remote.
16. RFID based smartcard security system.
17. RFID based Attendance system.
18. RFID based traffic data logger with traffic control.
19. RFID based tagging of personal devices.
20. RFID based Security system.
21. RFID based Parking Information System.
22. Anti bag snatching alarm.

And other RF and RFID based projects.....

III. IR Communication based
1. Wireless DATA Communication through IR.
2. Automatic room light controller with visitor counter (IR sensor).
3. Channel IR based remote control.
4. PC to PC communication with IR.
5. Home automation (AC/DC) using TV Remote.
6. Wireless communication using IR led and detector.

IV. Robotics Based Projects
1. Wired robot.
2. Line follower robot.
1. Robot control using TV remote.
2. Robotic Arm manipulator.
3. Robot control using RF module.
4. Robot control using PC interface.
5. Light Sensing Robot.
9. Robot direction controlling using RF communication.
10. Data transferring between two robots using Radio frequency Communication.
11. Channel RF based remote control.
12. Robot control using different colours of light.
13. DTMF based robot.
15. Robotic Hand controlled by Human Hand (HAPTICS).
16. Robot with camera interface which can be used as a SPY-BOT.
17. Bluetooth controlled robot.
18. Robot interfaced with GSM module to control from anywhere.
19. PC controlled robot.
21. Object finding robot using IP.

Other robots using various sensors and controllers.....

V. Security/Automation and Industrial projects
1. SMS Based Automated Room System.
2. GSM based advanced security systems.
4. Voice operated home appliances control.
5. GSM Controlled Door Latch Opener with Security Dial up with Changeable Telephone Number (8051 Based).
6. Home Automation Using GSM.
7. Electronic code locking using GSM.
8. 8051 based code Lock with Security Telephone Dialler.
9. GSM based Building Automation.
10. Implementation of Mobile Based HI-Tech door Locking System.
11. Mobile or landline Telephone based industrial protection.
12. DTMF based Home automation system.
13. DTMF based Industrial automation system.
14. DTMF based door security system.
15. Bluetooth operated low range automation system.
16. Industrial Automation system using RF.
17. Home automation (AC/DC) using RF module.
18. Wireless digital code lock with a status display.
19. Automatic room light controller with visitor counter (IR sensor).
21. PC based home automation.
22. Industrial Protection system using Temperature, Smoke sensors and light dependent resistors.
23. Dimmer lights automation system.
25. Voice recognition security system.
27. Microcontroller based Vehicle speed acquisition system.
29. GPS based road traffic monitoring system.
30. Finger Print based automation and security system.

VI. Image Processing/MATLAB based projects

1. Image compression using MATLAB.
5. Face Detection.
6. Shape Retrieval using Image Segmentation.
7. Speech Processing.
8. Robot controlled using camera and MATLAB.
10. Car Number Plate recognition.
11. Left Over Baggage Detection.
13. Voice recognition security system.

VII. GSM/Mobile/Telephone based projects

1. SMS Based Automated Room System.
2. Automated guided vehicle using GSM module.
3. GSM based advanced security systems.
4. Real-Time Industrial process control & monitoring Using GSM Phone.
5. GSM Controlled Door Latch Opener with Security Dial up with Changeable Telephone Number (8051 Based).
6. Home Automation Using GSM.
7. Electronic code locking using GSM.
8. Speed Control of motor through SMS (GSM).
10. 8051 based code Lock with Security Telephone Dialler.
11. GSM based Building Automation.
12. Implementation of Mobile Based HI-Tech door Locking System.
13. Mobile or landline Telephone based industrial protection.
15. Interfacing Microcontroller to GSM modem and application implementation SMS based M2M communication
16. PC to PC communication through mobile (MOBITEXT).
17. Remote Control using Telephone.
18. Digital Telephony Application (DTMF based projects).
19. Voice recognition security system.

Any other ideas from your side are always welcome.....

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