

LIST OF PC BASED PROJECTS

(embedded projects)

PLEASE NOTE

PROJECTS IN THIS LIST ARE TO BE INTERFACED WITH PARALLEL PORT (25 PIN CONNECTOR AT THE CPU) OR SERIAL PORT IF SPECIFIED. ALL THE HARDWARE PROJECTS WILL COMMUNICATE WITH PC WHILE EXECUTING THE SOFTWARE WRITTEN FOR THAT APPLICATION.

PARALLEL PORT BASED: (all softwares are in C / C++ or otherwise mentioned)

NETWORKING **PC BASED METRO TRAIN AUTO TICKETING SYSTEM:** The project will access the person id card unit and allow to enter the platform. I maintain the database of user account for each entry/exit.

PC BASED FUNCTION GENERATOR: - The software will generate sine/square/triangular and saw tooth wave forms and the parallel port will support for its D to A conversion of this to a connected CRO to see the desired wave form.

PC BASED DIGITAL CLOCK: - The software will generate the time running at computer at the PC screen as well as a connected four digit 7-segment display.

PC BASED RELAY SWITCHING TO OPERATE MOTOR (2/3/4): - An AC/DC motor speed can be changed by using the relay interface hardware through the parallel port.

PC BASED MULTIMETER: - The value of R and C will display at PC as it accepts the change of frequency of an oscillator.

NETWORKING **PC BASED BIO-TELEMETRY FOR MEDICAL AIDED INFORMATION:** It check and plot the graph for pulse rate of heart on PC screen. The TELE or RF transmission of pulse from patient is an added attraction.

PC BASED LIGHT, FAN CONTROL: - The PC will display and control the light and fan control options through the parallel port.

PC BASED RELAY SWITCHING: - The four electrical appliances can be controlled independently through the parallel port of the PC.

NETWORKING **PC BASED MOBILE PHONE ACTIVATION FOR PC FILE:** One can operate a file handling or electrical appliance control using a landline/mobile phone to activate the connected hardware interfaced with PC parallel port.

PC BASED 4-AXIS STEPPER MOTOR CONTROL: - The four stepper motors can be controlled for its time and speed operation in clock wise or anti clock wise individually.

PC BASED FREQUENCY MEASUREMENT: - The frequency generated by an external oscillator is displayed at PC directly.

NETWORK KING PC BASED SEISMOGRAPH: - The motion sensors activate the PC input port and to display and control the system accordingly. The building roof top balancing panel control the center of gravity of whole building to ensure that it resist the earth quakes.

NETWORK KING PC BASED VISITOR COUNTER: - The two separate entry and exit gates gives the actual number of people inside the hall. This also switches off the electrical appliance inside the hall in the absence of any person.

NETWORK KING PC BASED BANK TOKEN NUMBER DISPLAY: - The four-digit number entered at PC is also displayed at the connected hardware through the parallel port. Can be modified to make details of actual payments given to account holders etc. with all relevant details.

PC BASED 3D XYZ AXIS MOTOR (MATRIX) CONTROL: -

(a) The two stepper motors can be controlled jointly with the single command operation to operate two XY Axis motions to form a matrix at PC screen and a geared motor for Z axis control.

(b) 3D axis with three geared motors can be controlled jointly with single command operation.

PC BASED DATA ACQUISITION CARD FOR PC: - This card is an eight channel multiplexed analogue to digital converter with 8-bit resolution. It uses centronics port for its digital interface with the PC.

PC BASED SIMPLE ANALOGUE INTERFACE FOR PC: - This is the combination of 8-bit digital to analogue (DAC) and analogue to digital converter (ADC). It uses centronics port for its digital interface with the PC

PC BASED SPEED MONITORING SYSTEM (Tachometer): - The speed of a DC or AC motor can be detected and control in revolution per minute (RPM) using IR interface controller card.

PC BASED COMPUTERIZED MORSE CODE GENERATOR/TRANSMITTER: - It can be used to send telegraphic messages via computer. The message data entered through the computer keyboard is converted to corresponding Morse code and transmitted the circuit attached to any IBM compatible computer's printer port.

PC BASED DICE GAME: - 7 LEDs are arranged in the shape of dots on a die as this electronic die has a single phase on which the dot pattern would change dynamically. These LEDs are activated using parallel port of the PC.

PC BASED 7-SEGMENT ROLLING DISPLAY: - It provides a set of points with some acting input line and some others with output line for the rolling display.

PC BASED 7-SEGMENT DISPLAY: - This software controls appliances from your PC. It is a simple circuit along with software to interface a 7-segment display to your PC's parallel port. The software displays the 4-digit number in a loop by displaying

one digit at a time for a brief moment. The remaining displays are kept switched off during this time. The process repeats for all the remaining digits.

NETWOR KING PC BASED HEART BEAT/PULSE MONITOR:A microcontroller based circuit gives visual monitoring of pulse rate at LCD. and it can be connected to PC as it can sense the heart beat and measure the pulse rate with visual display at monitor. One can store the pulse rate of the individual in separate file. The remote transmission of pulse rate via RF link is also possible.

NETWOR KING PC BASED SATELLITE ANTENNA (DISH) TAPPING: - It can tap the satellite movement in twelve different month wise positions to access the maximum signal received by a dish antenna using a stepper motor drive with gear assembly. One can opt for degree level control also.

PC BASED VOLTAGE TRANSDUCER: - It senses the supply voltage and breaks it into discrete levels with difference of ten volts. It converts these levels into different logic states for reading by the computer.

PC BASED DC MOTOR CONTROL: - This is a small program written in C that regulates your DC motor in 8 steps. IGBT drives can be connected at control circuit.

NETWOR KING PC BASED AUDIO PLAYBACK DEVICE: M-DEVICE: - It is a low-cost audio playback circuit with bass travel and volume control to create your own music player. Programming in C (DOS based).

NETWOR KING PC TO PC COMMUNICATION: - The serial port communication between two PCs can be done with an independent transmitter / receiver circuits to send the data for a short distance:

- a) With wired link for chatting and file transfer software.
- b) With Infrared or Laser link transmitter & receiver for wireless link.
- c) With RF modules under actual wireless long distance networking.

PC BASED ROBOTIC ARM: Robotic Arm with gripper – A THREE stepper motor controlled arm with optional movements in all X,Y, Z motion control. One can program to grip, to lift and to rotate for a specific steps and directions.

PC BASED ROBOTIC CAR (agv): Two stepper motors/DC motor based **robotic car** will follow the path designed initially by keyboard arrow keys control and saved with specific file name. Also having visual display at monitor by pointer.

PC BASED IR BASED UNMANNED RAILWAY CROSSING: - A PLL based smart vision box with moving IR assembly unit will sense the train and activate the unmanned crossing bars automatically. PC screen also indicate the movement of train and if any other train is on the same track.

PC BASED LIFT/ELEVATOR CONTROLLER:- A useful project for all multistory building to monitor lift operation and control both from lift switches and computer keyboard. The PC screen will show the graphical representation of the lift up/down movement. Operates with single stepper Or geared motor control.

PC BASED TOUCH SCREEN SENSING SYSTEM:

- (a) An external hardware device can be activated by a finger touch at PC screen sensor.
- (b) The touch screen is useful for kids to teach like alphabets etc.
- (c) The cricket score board or bulletin board can be modified in several ways.

PC BASED DIGITAL AM/FM TUNER: - This digital tuning device can allow you to tune your favorite channel by just clicking the mouse. It comprises a digital to analogue converter (DAC) with a varactor/varicap diode connected at its output through two radio frequency chokes.

PC BASED ROBOTIC TROLLEY WITH UNLOADER: - A single/double stepper motor based trolley with an additional UNLOADER will run in straight direction to unload the material handling. One can select the stoppage as per requirement and it automatically return back if obstruction comes into the path.

PC BASED TEMPERATURE INDICATOR CUM CONTROLLER: - The PC will sense the pre-specified temperature and control the connected heating device accordingly.

PC BASED IR REMOTE DIMMER WITH STATUS INDICATOR: - The IR remote switch connected to a PC will display the intensity of bulb in three units and sense the actual operation at input port of PC.

PC BASED CRO-OSCILLOSCOPE: - It can display the waveform on the PC screen below 1 KHz. The hardware is used to condition the input waveform and convert it to digital format using A to D converter card.

PC BASED LIGHT DIMMER CONTROL:- This PC based light dimmer control operates with IR/bluetooth remote and status to show at PC screen

NETWORK KING PC BASED ELECTRONIC VOTING MACHINE: - A compact hardware device to perform the complete voting system for maximum four candidates and unlimited voters using software to show the results at the PC.

NETWORK KING PC BASED METAL DETECTOR WITH SPEED INDICATION: - The two-hardware device to sense all type of metals will activate the inport of PC at different time intervals to detect the metal with its speed measurement.

PC BASED PROCESS AUTOMATION: A Dc conveyor belt with a magnetic transducer for feed back network are the smart features of this project through a power controlling device

PC BASED TIME OPERATED DEVICE CONTROL: - The four electrical appliance can be controlled separately for their ON and OFF control through the PC clock.

PC BASED SMART TRAFFIC LIGHT CONTROL SYSTEM: - It controls the movement of traffic with pre-selected time interval for each road operation. One can select the change in time interval through the PC clock. It senses the frequency of traffic movement and control using FUZZY LOGIC.

NETWOR KING **PC BASED SPEECH/VOICE RECOGNITION SYSTEM:** - The connected hardware will shape up the sound and convert into digital format and store in the voice recognition memory. One can activate any external device using the same voice stored in the memory.

PC BASED BOILER CUM INDICATOR: - The PC will display and control the water levels in a tank for empty, half and full indication and control the heating element to heat the water to a specific temperature rating and open the solenoid valve to take the water out.

PC BASED SUN SEEKER: - The PC will display and control the movement of solar panel as per the sun moves in the sky in twelve different positions. The hardware connected to a geared motor assembly will actually rotate the solar panel to tap the sun position.

PC BASED TELEPHONE CALL RECORDER CUM TIME KEEPER: - The PC will display and control the every outgoing calls made through a telephone and give the result in minutes for total call made and its time.

PC BASED MULTIMODE LIGHT CHASER: - The circuit can convert a PC to a multi-mode light chaser. The program produces 24 different patterns of running light.

PC BASED LIQUID LEVEL MONITOR/CONTROLLER: - This project will run motor to lift water from underground tank on timer basis or to achieve the top level for overhead tank. Motor will automatically stop if underground water finished or top level achieved or time lapse.

PC BASED COMBUSTION ENGINE CONTROL: - The animated software project shows the working of combustion engine and the hardware connected will actually shows the rpm of engine.

PC BASED OVER SPEED INDICATOR & DETECTION: - The IR interfaced circuit will detect the speed of a vehicle in Km/Hr and also gives alarms indication for a pre-selected speed limit.

NETWOR KING **PC BASED PHONE BANKING SYSTEM FOR ACCOUNT STATEMENT:** The PC will announce the account statement on phone using voice modem and VB as front end for software.

NETWOR KING **PC BASED SMART CARD:** - The hardware connected to the parallel port will sense the card inserted in socket and gives the details at PC screen for his/her identification, time, expiry date etc.

PC BASED SCHOOL BELL: - This PC based clock will give all scheduled time periods controls with prayer warning and recess bell etc. One can reschedule or default condition to run the bell timings.

PC BASED DIAL CLOCK WITH TIMER: - Two 4-line-to-16 line decoders used in this circuit, the first drives 'hour LED's and the other drives 'minute LEDs'. These decoders are interfaced directly to the PC's printer port.

PC BASED BUS ROUTE DETECTOR WITH HAZARD/BUS FULL INDICATION: - A wireless bluetooth connectivity between the bus and the control room gives the information about the bus routing and also gives the indication if there is any emergency or hazard.

NETWORK KING PC BASED WIRELESS LAN BLUETOOTH TECHNOLOGY: Its most elementary form is defined as a global specification for wireless connectivity that eliminates the need for interconnecting cables and enables ad hoc networking among devices. It provides limited-range RF connectivity for voice and data transmissions between information appliances.

PC BASED MOUSE CONTROL USING EYE BLINK : The project allows a person to wear a pair of glasses to control the mouse in two direction.

PC BASED RADAR CONSOLE SIMULATOR: - It simulates a basic radar console (moving in 360 degree) for IR/Metal/Light detection and find their radial direction (in degree) with date & time. It senses the IR /Ultrasonic waves and display the angle and time on which it is being detected by RADAR.

PC BASED AC/DC MOTOR SPEED CONTROL WITH IGBT DRIVES: - It can control the desired speed of a connected motor through PC parallel port using PWM technique.

NETWORK KING PC BASED CAMERA ACTIVATION + AUTO SNAP CLICKING: - A digital camera connected to a PC will automatically activated with the obstruction created in the front of it and save the picture in PC instantly. Software in VB for ATM machine example.

PC BASED 5 CHANNEL LOGIC ANALYZER: - A digital logic analyzer is an instrument, which is similar to a CRO. The former can resolve voltages into two levels, either a high (+5V) or a low (0V), and hence is suitable for analyzing digital circuits. The latter can handle both analogue and digital inputs.

PC BASED SOUJUNIOR - A Wireless Programmable Control Unit: - It consists of a receiver unit that receives signals or commands from humans on earth and executes the instructions on the remote planet. It also has an on-board microcontroller, which helps it to take, decisions on its own, in environments that are alien to human kind.

PC BASED ANGLE MEASUREMENT TOOL (with Stepper Motor & IR Link): - It can detect the desired angle upto 360 degree from the start position upto the destination using IR transmitter and receiver link.

PC BASED DISTANCE MEASUREMENT ROBOT: - The IR based robotic trolley with to and fro movement can travel in a straight pipe to measure the distance traveled till the obstruction come.

NETWORK KING PC BASED SMART CARD FOR MUSIC SHOP: - This software based project in 'C' allows specified discount to its regular customer if they insert their smart card in hardware slot connected to the computer.

NETWOR KING PC BASED WIRELESS OBJECT COUNTER FOR INDUSTRY: - This wireless object counter count the number of items produced by a machine placed 50mts. far from computer. One can control the power of machine remotely (RF transmitter and receiver unit) when desired.

NETWOR KING PC BASED RADIO FREQUENCY IDENTIFICATION TAGS(RFID): - The five persons of a company are being identified by their RFID tags. The door will automatically open whenever it identify their presence and register their attendance with time and date in the computer.

NETWOR KING PC BASED SECURITY ALARM TRANSMISSION: - This PC based security system check the password for each entry and open the door for validity check. And for internal security, it will give alarm indication for fire, power failure, intruder/unauthorized entry and temperature sensing of air conditioning plant.

NETWOR KING PC BASED 'MUSIC ON DEMAND' AT YOUR MOBILE PHONE: - This unique PC based communication project designed in VB software, enables a person to play its own selective song when he dial his home landline/MOBILE phone number through its mobile phone. It has selection mode to play, stop, previous and next song options.

PC BASED EYE DETECTION FOR MESSAGE READING: - The project reads the blinking of eyes and decode the message for the paralytic patient who cannot speak.

PC BASED TONGUE OPERATED MOUSE: The project is a Hardware setup i.e. physical changes in ball type mouse with an IR sensors to be fixed in eye glasses to control the left/right keys. The tongue will roll the mouse cursor in all directions.

NETWOR KING PC BASED REMOTE VOTING SYSTEM THROUGH MOBILE: This is another telephone based communication project allows its voter to vote at the landline voting booth through its mobile phone and votes counted at PC.

PC BASED 7-SEGMENT DISPLAY: - This software controls appliances from your PC. It is a simple circuit along with software to interface a 7-segment display to your PC's parallel port. The software displays the 4-digit number in a loop by displaying one digit at a time for a brief moment. The remaining displays are kept switched off during this time. The process repeats for all the remaining digits.

PC BASED PROPORTIONATE TRIAC AND CONTROL USING PC: - It is a test program for proportionate traic and control using PC.

PC BASED POWER CONTROL : - In this software you can enter the load nos. and can keep them on/off as required and if required you can see the status of your load nos., which are at ON state.

PC BASED FIBRE COMMUNICATION: - A graphical project (Hardware Optional) with optical fibres in three section (a)Cross section (b) Monomode step index fibre & (c) Multimode graded index fibre. A single side voice communication hardware attachment can be included with this with data linked at the port.

PC BASED DATA LOGGER: - Here is a simple PC based data logger to acquire

slowly varying signals through the parallel port of a PC.

PC BASED WIND DIRECTION INDICATOR CUM SPEED MEASUREMENT:

- The PC will display the movement of wind vane and sense the counter connected to it for the speed of wind in Km/hour.

PC BASED CAR PARKING MONITOR: - A 20 cars parking monitor cum control system that check and enter the time and registration no. of each can while entry and exit with IR/LASER sensors at gate. Parking full indication is also there.

NETWOR KING PC BASED GLOBAL POSITIONING SYSTEM: GPS

A radio controlled RF linked global/local positioning system. The project monitors the placement of a specific object/vehicle in a specific area in five locations.

PC BASED FINGER OPERATED MOUSE : The IR sensors connected to hand will operate the mouse movement.

PC BASED PROGRAMMABLE LOGIC CONTROLLER:- It's a freely programmable system to control output based on the status of the input in an industrial setting such as controller.

PC BASED JOY STICK CONTROLLER:- Two stepper motor controller card is controlled by connected system at joy stick port. Multiple applications can be done such as ROBOTIC Car, Crane, Drill, Arm function etc.

PC BASED EMPERATURE CONTROLLER: - It's a PC based serial port circuit based on microcontroller. The temperature sensor send the serial data to PC and it control the connected output device at parallel port.

PC BASED LIGHT FINDER:- Another interesting project for security system at border or no entry areas. This is two stepper motor controlled robotic project that covers almost every inch to find light in its surroundings and finally gives reading at PC screen for its angle, time and direction etc.

NETWOR KING PC BASED REMOTE OPEATED FIRE/BRICKS GAME:- This IR/Bluetooth based remote game will allow the player to play with a distance and enjoy.

NETWOR KING PC BASED CLUB ENTRY SMART CARD :- The project is designed for a sports club for the authorized entry restriction on the basis of card punch. It warns the management for: Card not found, Do you want to update, Expiry indication with buzzer.

PC BASED ANALOG READER:- It is to check input voltage from 0-5V at PC.

PC BASED SCALE FOR MEASEREMENT: -A mechanically useful project to measure distance of an object. It operates with a single stepper motor with arrow key.

PC BASED TELEPHONE EXCHANGE:- A good project for communication that check and control all incoming call and transfer to the right person. One can take the total call monitoring from each extention.

PC BASED MOVING MESSAGE DISPLAY: This project display the character in running mode with:

a) By using microcontroller & memory IC to be interfaced with serial port of PC run by windows file or software made in C# or VB for text message display. b) By using a DOT matrix display for specific character to run with parallel port of PC

PC BASED TELEPHONE DIALLER:- The software enables the modem of your PC running DOS or Windows operating system to take up the commands and execute them to give desired output.

PC BASED SIMULATION OF NPN TRANSISTOR BIASING USING VISUAL C#. This simulation program is to graphically represent the quiescent point of biased transistor for different input parameter.

PC BASED SMART HOME-CONTROL: - : One can do many functions to be performed by computer like scheduled switching of devices at home and many other functions.

PC BASED AUTO BRAKING SYSTEM: A unique project for automobiles and vehicles that sense the rpm of the wheel or engine and apply brakes automatically if speed exceeds.

PC BASED OBJECT REJECTION AND COUNTING MACHINE: It is controlled by a conveyer belt that sense the metal or non metal objects running on it. PC will count the selected and rejected items with buzzer indication.

PC BASED PAPER CUTTING MACHINE: The machine operated by a PC parallel port operates the cutting blades as per instruction given by user.

PC BASED MULTIPLE DEVICE SWITCHING CONTROL:- It can handle 255 electrical device connected to single PC parallel port.

NETWOR KING PC BASED PNR NUMBERED- AUTO TICKET VENDING MACHINE: The PC will drop a platform ticket automatically when a Rs. 5 coin is inserted when a PNR number is entered to check and restrict the visitors entry.

NETWOR KING PC BASED COLLEGE PRIMISES POSTION DETECTOR: The project will show the presence of student/teacher in five out of one area with time like canteen, reception, library ground etc.

PC BASED TIME SHEDULE OPERATED ROBOTIC SWEEPER: The project will operate sweeper robot pre-programmed to do specific job with in the specific area at a specific time.

PC BASED 4 BIT PC TO PC PARALLEL PORT COMMUNICATION: The project will operate the electrical devices connected to one PC or screen shots saved in one PC with the help of other PC remotely placed via IR or RF link.

NETWOR KING PC BASED WIRELESS ELECT. METER BILLING SYSTEM:

KING A load connected at a distance is sending rf signals for its unit consumption will be displayed and billed by PC over a distance.

PC BASED AUTOMATION FOR CHINA MADE ROBOT : -

The China made ROBOT commonly available in market will run with the computer software to perform different functions as per the time schedule set by program.

NETWOR KING **PC BASED ATM MACHINE:** The ATM machine will access the password to operate a bank account and it actually outlet the 5 Rs. Coins as per our request and show th balance in account.

PC BASED ANTENNA POSITION CONTROL: This will change the position of dish antenna with the help of stepper motor as per satellite position with angle already given to computer through software.

NETWOR KING **PC BASED UNMANNED PETROL PUMP CONTROLLER-**In this a solenoid volve that control liquid, is interfaced with PC parallel port. A software in C store the data files of each customer. The customer himself put his password and demand for the petrol needed. The parallel port of PC opens the liquid volve and fills the tank according to the requirement. The pre or post paid account statement according to personal consumption can be done.

NETWOR KING **PC BASED IMAGE/COLOUR RECOGNITION-VB:** The project is connected with color camera and this will recognize the colors of balls in front of it and we can get many functions with this like to follow the same with moving vehicle etc.

NETWOR KING **PC BASED VOICE OPERATED DEVICE SWITCHING USING VB OR DOT NET:** It actually switch on /off the electrical devices using windows voice engines plus some coding in VB or .net to do the functions.

PC BASED DEPTH SENSOR: It radiates the ultrasonic sound from transmitter and a receiver connected to PC serial port will check the frequency and thus check the depth of an area.

PC BASED WIRELESS REMOTE CAR :THAT MAKES THE MOVEMENT THROUGH MOUSE CURSOR

PC BASED EARTH FOSSILE LOCATOR: It check the metal non metal , depth etc of an area to find rare fossile.

NETWOR KING **PC BASED VOICE TO TEXT WITH SIMULTANEOUS LCD DISPLAY AT PORT.:** The project will convert voice to text on PC screen and simultaneously display the same output at LCD screen on the hardware.

PC BASED EARTH QUAKE PROOF BUILDING: The centre of building can be controlled motorized by a moving weight placed on the top of roof. The PC will sense the move the weight accordingly.

NETWOR KING **PC BASED ARTIFICIAL SATELLITE FOR EARTHQUAKE/Tsunami SENSING DEVICES:** The model of artificial satellite to be placed between the sensing area and computer right in the sky. The sensor Eearth quake or water rise will

be sensed and it actuate the satellite to respond and retransmit the signals to base station computer for its location and time. A five areas zone can be implemented in this.

PC BASED GLOBE : It automatically find the country using a mechanical arrangement using two stepper motors fitted on an actual Globe.

NETWOR KING PC BASED INTERACTIVE VOICE RESPONSE SYSTEM (IVRS): The system connected to land line/mobile will respond the user with actual voice to be listen at transmitting end using PC. Software in VB or .net will allow the user to get interactive voice responses by pressing keys from mobile phone.

NETWOR KING PC BASED VIDEO ON DEMAND: One can demand the Video file to play on request on phone using VB or .net software.

PC BASED SHOOTING GAME (LASER BASED):-A laser torch is to be focused at the target. The sensors interfaced with PC will get activated and score will be display at PC screen.

NETWOR KING PC BASED VOICE OPERATED CAR: VB based software project that recognize the voice from the PC microphone and operate the actual hardware car connected to it (wired/wireless) for LEFT, RIGHT, GO, Stop functions with voice commands.

PC BASED OVERLOAD CONTROLLER:- This electrical based project control the eight junction switch as it sense the overload at the outputs. It retains the load at four VIP areas if load exceeds the limit and load shed the other four non VIP areas automatically.

PC BASED SOLENOID VALVE OPERATED LIQUID STIRRER:- This is a unique project in the category of Automation & Control to operated with PC. For the 1st solenoid valve control the flow of first liquid input and 2nd solenoid valve for second liquid (both on the top) and a 3rd solenoid valve at the bottom for liquid out control. In build stirrer mix both the liquids for desired time. The level in tank is also indicated at PC screen.

PC BASED LATH MACHINE CONTROL:- A CNC machine control system to operate two stepper motors in a desired mode to cut work a work piece in specific shape and size.

PC BASED OVER HEAD WATER LEVEL IND. & CONTROL: - It indicate the water level in four steps viz. $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and full With motor control and buzzer indication at full.

PC BASED FUZZY LOGIC SYSTEM: - Only software-based project to display the graph pattern with different conditions given to PC to analyze fuzzy logic controls.

PC BASED SCREW/DRILL SYSTEM:- This two stepper motor controlled system either use to screw with the moving bolt jack arrangement or it can be used to drill up to desired depth at a specific space.

PC BASED TELEPHONE DIALLER:- The software enables the modem of your PC running DOS or Windows operating system to take up the commands and execute

them to give desired output.

PC BASED VIRTUAL TRAINER KIT FOR 8085 MICROPROCESSOR PROGRAMMING:- Visual basic based software project that help to execute and run program without using actual hardware kit.

PC BASED SIMULATION OF NPN TYRANSISTOR BIASING USING VISUAL C#. This simulation program is to graphically represent the quiescent point of biased transistor for different input parameter.

PC BASED WIRELESS INDUSTRIAL FAULT FINDER: The DTMF based remotely access RF link circuit to monitor Temperature, Smoke, Light and Sound/vibration.

PC BASED “SKADA” CONTROL FOR DISTRIBUTION LINE AUTOMATION: This project will make a setup control for the available line in KV and its distribution in preference mode set by user. The software in VB or C can be implemented.

PC BASED MOBILE ROBOT FOR NAVIGATION: The stepper motors based robot that capture the image through web camera and controlled by PC for left /right/forward/ and reverse movement. The unique feature of this is that it can vary the speed of vehicle from the mouse control.