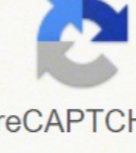
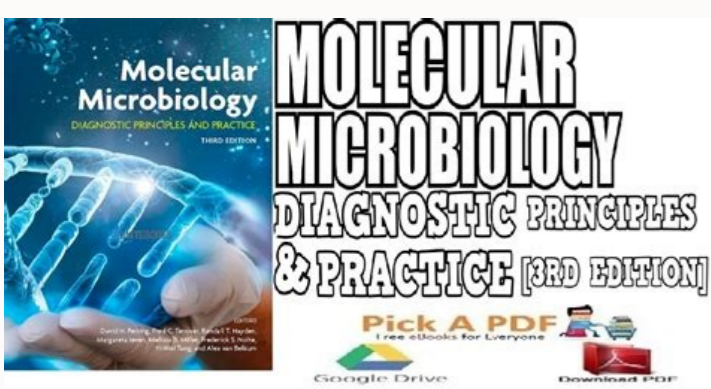


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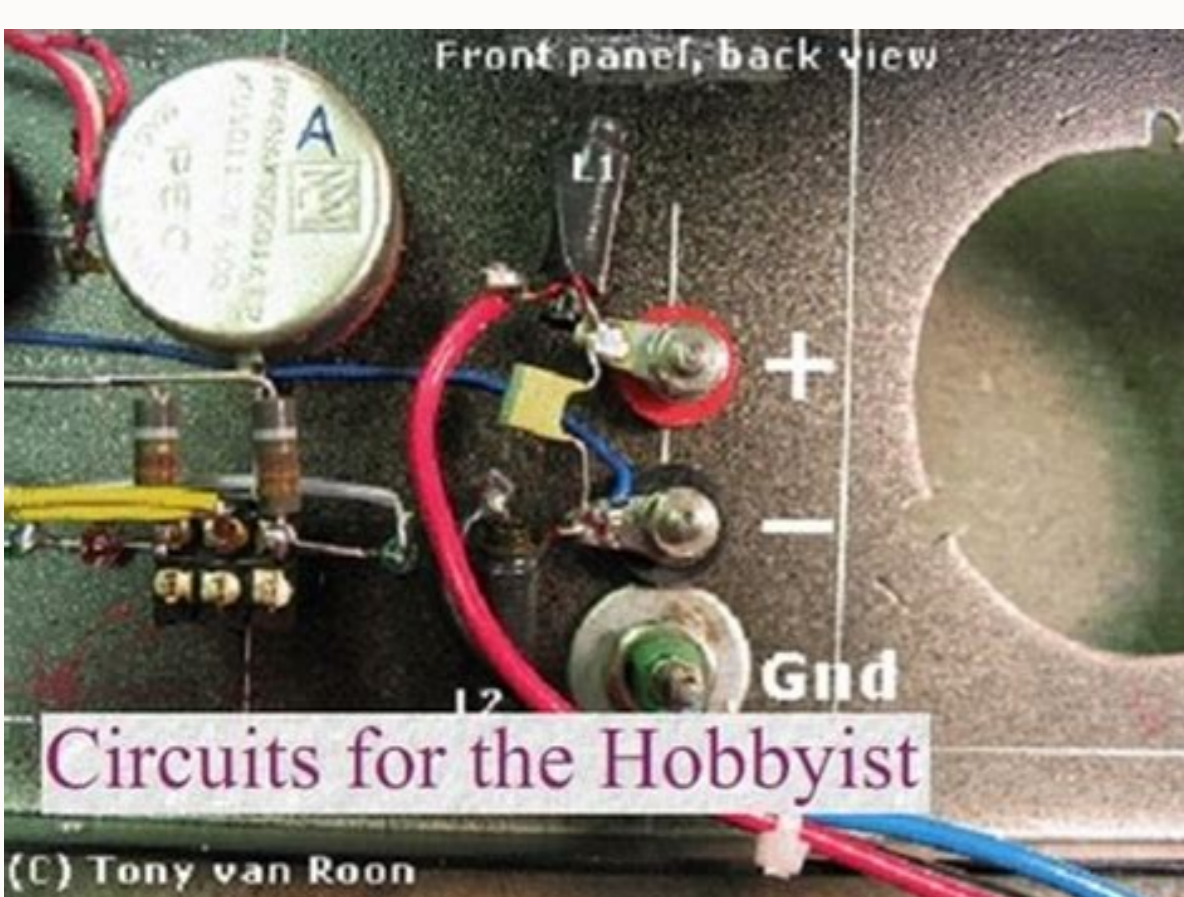
**NETWORK SYSTEMS ENGINEER**

**JOB DESCRIPTION:**

The job of Network Engineer is done for the purposes of ensuring the stability and integrity of in-house voice, data, video, and wireless network services. The Network Engineer will oversee and participate with the installation, monitoring, maintenance, support, optimization and documentation of all network hardware, software, and communication links. This includes managing multiple projects, planning network technology roadmaps, and configuring/optimizing network services both internally and those integrated with Internet-based services. The network engineer will also manage the network servers. This includes application, database, web, email, back-up, SAN, VoIP, and other servers. The network engineer will manage and report on customer SLAs and vendor SLAs on the behalf of the District. This individual will also analyze and resolve network/server service problems in a timely and accurate fashion, and provide reports, documentation, and training where required. For the purposes of this document: The term "network" refers to the District LAN, WLAN, WAN, MOE, and related equipment, peripherals, and services.

**POSITION REQUIREMENTS:**

- Administer systems and servers related to the network for the purpose of ensuring availability of services to authorized users.
- Align network services for the purpose of following the mission, vision, and values of the District and Department. Conduct research on network/server products, services, standards, and best practices for the purpose of remaining current.
- Coordinate new construction, remodels, and existing facilities network/server (e.g. servers, switches, WAPs, VoIP appliances, and UPSs) for the purpose of completing designs, planning, purchasing, installation, configuration, maintenance, and testing.
- Develop and maintain data exchanges (e.g. meta data) for the purpose of ensuring network/server services.
- Develop and maintain network/server "test environment" for the purpose of having environment for testing purposes. Develop and maintain scripts and utilities for the purpose of automating repetitive routines and administer network/server control systems.
- Develop, implement, and maintain network/server administrative authorization for the purpose of having policies and procedures.
- Develop, implement, and maintain the processes and documentation for network/server managements (e.g. asset, capacity, change, configuration, continuity, life cycle, problem, release,





### Design of embedded security door lock system.

4. The BC547 transistor is a general-purpose transistor in small plastic packages. 7.2. Capacitor: Capacitor or electric condenser is a device for storing an electric charge. In addition to use as fixed voltage regulators, these devices can be used with external components to obtain adjustable output voltages and currents. In typical operation, the emitter-base junction is forward biased and the base-collector junction is reverse biased. PCB FABRICATION E. One mnemonic device for identifying the symbol for the NPN transistor is "not pointing in." An NPN transistor can be considered as two diodes with a shared anode region. Password Based Door Lock System using 8051 Microcontroller Traditional lock systems using mechanical lock and key mechanism are being replaced by new advanced techniques of locking system. First, a negative screen of the layout is prepared with the help of a professional screen printer. Each consists of a 'High' byte and a 'Low' byte which can be accessed under software. It is a simple embedded system with input from the keyboard and the output being actuated accordingly. Once the code is written, we saved it with .c extension and then added it to the source file group under the target folder. INTEL'S 8051 Architecture The generic 8051 architecture sports a Harvard architecture, which contains two separate buses for both program and data. PINOUT FOR IC LM7805 G. REFERENCES Electronic circuits and devices: J.B. Gupta. clear lcd 4. communication port. Other portions of the architecture include few 8 bit and 16 bit registers and 8 bit memory locations. When an electrical voltage is applied, the n-p junction acts as a rectifier, permitting current to flow in only one direction. It is capable of performing many functions of the vacuum tube in electronic circuits, the transistor is the solid state device consisting of a tiny piece of semi-conducting material, usually germanium or silicon, to which three or more electrical connections are made. Considerable effort was expended to make the entire series of regulators easy to use and minimize the number of external components. The layouts printed in a "buffer sheet" using a laser procedure. Using a microcontroller the password entered is checked with the stored password and then does the corresponding operations. If the password is wrong then door would remain closed, denying the access to the person. We can use this system as an attendance register for the students to enter a class room with their respective password. An access controller for doors forms a vital link in a security chain, through the top of the screen. 10. Timers/Counters 8051 has two 16 bit Timers/Counters capable of working in different modes. The board is designed using a personal computer. 7.5 Integrated circuits Regulator IC (LM 7805): The LM7805 monolithic 3-terminal positive voltage regulators employ internal current-limiting, thermal shutdown and safe-area compensation, making them essentially indestructible. thermal - Output transistors safe area protection 19. Each 8031 device has some amount of data RAM built in the device for internal processing. ABSTRACT Security is a prime concern in our day-to-day life. APPLICATIONS Our electronic doorlock performed as expected. The BC547 transistor is an NPN bipolar transistor, in which the letters "N" and "P" refer to the majority charge carriers inside the different regions of the transistor. Such an automatic lock system consists of electronic control assembly which controls the output load through a password. Both the component and the track layout of the peripheral PCB is given at the end of this report. These electrons wander (or "diffuse") through the base from the region of high concentration near the emitter towards the region of low concentration near the collector. STOP 10. In other words to ensure the supply voltage does not fall below the threshold level of 1.2V and the reset pulse width is greater than 100ms (recommended for 89C51), we select the values of resistor and capacitor such that RC >= 100ms. The microcontroller continuously monitors the keypad and if somebody enters the password it will check the entered password with the password which was stored in the memory and if it is the same then the microcontroller will switch on the corresponding device. This area is used for stack operations and temporary storage of data. The arrow in the NPN transistor symbol points in the direction of the conventional current flow when the device is in forward active mode. The system comprises a number keypad and the keypads are connected to the 8 bit microcontroller AT89C2051. The etching medium is prepared with the un-hydrous ferric chloride water. lcd\_cmd(LCD\_SETCGADDR); for(i=0;i>4) & 0x0F)|LCD\_EN; lcd\_port= ((cmd >> 4) & 0x0F); lcd\_port= (cmd & 0x0F)|LCD\_EN; lcd\_port= (cmd & 0x0F); delayus(200); delayus(200); } void lcd\_data(unsigned char dat) { lcd\_port= ((dat >> 4) & 0x0F)|LCD\_EN|LCD\_RS; lcd\_port= ((dat >> 4) & 0x0F)|LCD\_RS; lcd\_port= ((dat & 0x0F)|LCD\_EN|LCD\_RS); lcd\_port= ((dat & 0x0F)|LCD\_RS); delayus(200); delayus(200); } void lcd\_str(unsigned char \*str) { while(\*str){ lcd\_data(\*str++); } } Lock program: #include "keypad.h" #include "lcd.h" #include "delay.h" #include "lock.h" unsigned char code masterlock[10]="1234567890", defaultlock[5]="54321"; unsigned char userlock[5]; input[10]; extern bit newlock; bit check(unsigned char \*first, unsigned char \*second, unsigned char \*len) 14. FUTURE ENHANCEMENTS separate passwords. Other than the speaker sounds, all the lights are made to turn on if password entered is wrong for three times and also a hidden camera is used to record the faces who trespass. The code is then compiled by pressing F7 key. Here we use a 5 digit password for better secrecy. A small current entering the base in common-emitter mode is amplified in the collector output. As far as the costs concerned, more than 25% of the total costs for the PCB design and fabrication. PIN DESCRIPTION OF AT89C2051 2. An electric current is the movement of charged particles called electrons from one region to another. So it is clear that this 8051 architecture was designed to cater many real time embedded needs. print "Enter lock code" on lcd 5. PINOUT FOR BC547 6. It is used in general-purpose switching and amplification BC847/BC547 series 45 V, 100 mA NPN general-purpose transistors. This crystal oscillator is connected between pin 18 and 19 of the microcontroller. Reset Circuit Design: The reset pin of the microcontroller is kept active till the power supply is in the specified range and a minimum oscillation level is maintained. To ensure smooth operation, we connect two ceramic capacitors ranging from 20pF to 40pF. Gayakward Integrated circuits : K.R. Botkar The 8051 microcontrollers: Muhammed Ali Mazidi These timers can be used to measure time intervals, determine pulse widths or initiate events with one microsecond resolution up to a maximum of 65 milliseconds (corresponding to 65,536 counts). The following list gives the features of the 8051 architecture: pace. In our project we are using 8 bit microcontroller AT89C2051, it is the advanced 8 bit microcontroller from ATMEL, which incorporates Flash Rom, and Timer etc. In this project 4x3 keypad is used to enter the password. It can also be used to secure lockers and other protective doors. When they entered password equals with the password stored in the memory then the relay gets on and so that the door is opened. Resistors used in electric circuits are cylindrical. It is not necessary to bypass the output, although this does improve transient response. We can use 9V DC battery or 12V, 1A adaptor as a power source. else 7.1 if input = userlock or input = default lock then 7.1.1 unlock the lock 7.1.2 retry count = 3 7.1.3 print " \* " to lock " on lcd 7.1.4 accept input using matrix keypad 7.1.5 if input = " \* " then lock 7.1.6 goto step 4 7.2 else 7.2.1 decrement retry count 7.2.2 print " wrong code" on lcd 7.2.3 if retry count = 0 then sound alarm on 7.2.4 goto step 4.8. if input = "12345" then 6.1 print "Enter master code" 6.2 get 10 char long password using matrix keypad 6.3 if input = masterlock then 6.3.1 change user password 6.3.2 goto step 4 6.4 else 6.4.1 print " wrong code" on lcd 6.4.2 goto step 4 7. START 2. Principle Behind the Circuit: The main component in the circuit is 8051 controller. PIN OUT OF AT89C2051 C. After that the board is taken out and rinsed in flowing water under a tap. The layout is drawn using the software "Adobe PageMaker 6.5". Fixed capacity and variable capacity capacitors are used in conjunction with coils as resonant circuits in radios and other electronic equipment. The system is fully controlled by the 8 bit microcontroller AT89C2051 which has a 2Kbytes of ROM for the program memory. Most bipolar transistors used today are NPN, because electron mobility is higher than hole mobility in semiconductors, allowing greater currents and faster operation. FLOW CHART F. BLOCK DIAGRAM OF IC LM7805 H. BLOCK DIAGRAM B. Once the code is compiled, a hex file is created. The success of the circuit is also dependent on the PCB. The microcontroller has a program memory of 2Kilobytes. If the p-type region is connected to the positive terminal of the battery and the n-type to the negative terminal, a large current flows through the material across the junction. Features of AT89C2051: -51 Products -Level Program Memory Lock -Bit Internal RAM -Bit Timer/Counters 12 9. Prior to writing the code, general steps need to be followed like creating a new project and selecting the target device or the required microcontroller. N-type and P-type Transistor: A germanium or silicon crystal, containing donor impurity atoms is called a negative or n-type semiconductor to indicate the presence of excess negatively charged electrons. We were able to implement all the functions specified in our proposal. LIST OF TABLES: 1. They are intended as fixed voltage regulators in a wide range of applications including local (on-card) regulation for elimination of noise and distribution problems associated with single-point regulation. PROGRAM Delay program: #include "delay.h" void delay(unsigned char delay) { while(delay--); } void delayms(unsigned char delay) { while(delay--); delayus(149); } Keypad program: #include "keypad.h" #include "delay.h" bit keystatus = FALSE; void keypad\_init() { keyport &= 0x0F; } unsigned char getkey() { unsigned char i,j,k,key=0,temp; k=1; for(i=0;i>1); temp = keyport; temp &= 0x07; if(7-temp) { if(col1) { key = k+0; while(col1); return key; } if(col2) { key = k+1; 24 11. while(col2); return key; } if(col3) { key = k+2; while(col3); return key; } j++; } k+=3; keyport |= 0x80>; delayms(10); } return FALSE; } unsigned char translate(unsigned char keyval) { if(keyval

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