



PIC
Microcontroller

Projects . Tutorials . Compilers . Code

PIC Microcontroller




Pic18f4550 microcontroller based projects


Pic18f4550 microcontroller based projects:


PIC18F4550 belongs to 'PIC18F' family of microcontrollers. PIC18F4550 is one of popular Microcontrollers from the microchip technology, comes with a High-Performance, Enhanced flash, USB Microcontroller with nano-Watt-Technology.




This is an 8-bit microcontroller popular among makers and engineers due its features and easy applications. PIC18F4550 comes in various packages like DIP, QPF and QPN and can be selected according to the project requirement.

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[How to interface GSM Module with PIC18F4550 Microcontroller](#) The Global System for Mobile (GSM) communication is the Second Generation of mobile technology. Although the world is moving towards Third and Fourth generation but GSM has been the most...
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[How to display text on 16x2 LCD using PIC18F4550](#) Several automated and semi-automated devices require a message to be displayed in order to indicate their working status. In continuation to LCD interfacing with PIC18F4550, this article explains how to...
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[How to interface Stepper Motor with PIC18F4550 Microcontroller](#) A Stepper Motor is a brushless, synchronous DC motor which divides a full rotation into a number of steps. For detailed information on working, types and stepping modes, refer the article on...
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[Pickit 2 Download & Develop Your own USB pickit ii programmer](#) PICkit 2 Introduction: There are many PIC programmer available, commercial and DIY devices. As Microchip introduces the new microprocessors the programming software got to be updated accordingly playing catch-up...
- [I2C keypad using PIC18F4550 microcontroller](#) I2C keypad This instructable explains how to interface with a 4x4 keypad over an I2C bus. I started this project because I wanted some plug and play input and output...



6.



[PianoPIC](#) This little project is an example of a simple audio application using a PIC micro-controller. We decided to use the PIC18F4550 micro-controller for memory purposes. Using only digital inputs and outputs,...

7.



[PIC Microcontroller Development Board System](#) This project is for the design and use of a PIC development tool which is flexible to suit a wide range of PIC based electronic projects. It is often easier...

8.



[How to work with inbuilt Analog Comparators of PIC18F4550](#) Analog comparator is an electronic device which compares the two voltage signals and provides TTL logic output to indicate the larger signal. The analog comparator is used in various applications...

9.



[How I Made This 18F4550 Programmer in Ten Years](#) It really took me 10 years to build that programmer !!Don't be surprised , I actually started building the original programming circuit of Microchip PIC 16F84 (JDM 2) on 2003 and finished...

10.



[Generic UART for Any Microcontroller](#) Communicating with a micro-controller at runtime, is a very useful facility. It can be used for debugging, or to send commands etc. One of the easiest available protocol to communicate is...

11.



[PIC18F4550 CONTROL STEPPING MOTOR VIA USB INTERFACE DELPHI](#) This is an example that demonstration how to control some devices via USB interface.The PC software program with delphi. Feature : – CPU PIC18F4550 with full speed USB interface at...

12.



[PIC C18 CCS C USB APPLICATIONS PIC18F4550 PIC18F2550 CIRCUITS](#) Previously prepared by @Ahmet ATA `s" Step by Step USB and Applications "share the work I did from the most comprehensive Turkish source USB PIC think about communication. Of electro-techno...

13.



[HI TECH C LCD EXAMPLES PIC18F452, PIC16F877](#) Software Hi-Tech C language prepared by the various applications of electronic sections PIC18F452 PIC16F877 PIC18F4550 based on the Hi Tech C source code and the PCB drawings and all other...

14.



[ROBOT CONTROL BOARD PIC18F4550 FOR ROBOTICS AND AUTOMATION PROJECTS](#) PIC18F4550 controller installed on the computer (USB) connection for robotics and automation projects an advanced control card required summer, bill of materials, schematics, PCB drawings and other documents are prepared...

15.



[HI-TECH PIC C18 EXAMPLES CIRCUITS PROJECTS](#) Hi-Tech PICC18 examples PIC18F4550 microcontroller based on the C source code and schematics are drawings Proteus ISIS applications can be tested in three different samples for the project's implementation Hi-Tech...

16.



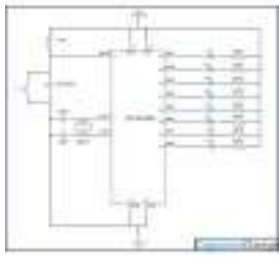
[FRAMEWORK FOR USB PIC18F4550 GENERIC HID VISUALSTUDIO](#) PIC18F series microcontrollers with USB port USB HID Framework applications can be developed for the open source implementation of the example circuit (USB LCD text transmission) and Visual Studio's C...

17.

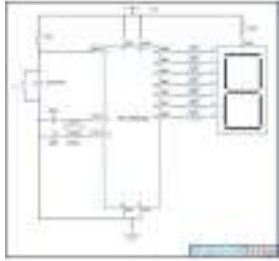


[USE ADNS2610 OPTICAL MOUSE SENSOR PIC18F4550 USB](#) Adns2610 interesting optical mouse sensor circuit out of the detected motion is displayed on a computer screen. PIC18F4550 USB connection on the circuit board are available. Normal mouse but sees...

18. [How to interface LEDs with PIC Microcontroller \(PIC18F4550\)](#) It is necessary to understand basic I/O operations of PIC18F4550 before dealing with its complexities. This article presents a way to take simple output from a PIC microcontroller. This learning would also help...



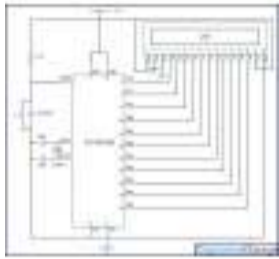
19. [How to interface Seven Segment Display with PIC18F4550 Microcontroller](#) The seven segments are used to display decimal and hexadecimal (0-9, A-F) values. A seven segment is cheapest option for applications requiring numeric value display as output. Calculators, watches, lift's floor indication...



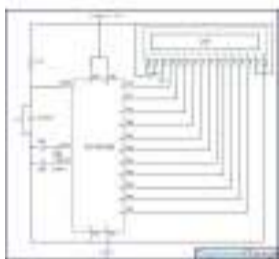
20. [How to take input with PIC18F4550 Microcontroller](#) Any microcontroller based system typically has an input and a corresponding output. Taking simple output with a PIC microcontroller has been explained in LED blinking with PIC18F4550. This article explains how to provide an input to...



21. [How to interface LCD with PIC18F4550 Microcontroller](#) The character LCDs are the most commonly used display modules. These LCDs are used to display text using alphanumeric and special characters of font 5x7/5x10. For basic working and operations of a...



22. [How to display text on 16x2 LCD using PIC18F4550 Microcontroller](#) Several automated and semi-automated devices require a message to be displayed in order to indicate their working status. In continuation to LCD interfacing with PIC18F4550, this article explains how to display...



23. [How to create custom characters on 16x2 LCD using PIC18F4550](#) The 16x2 character LCD can also be used to display custom characters other than numerals, alphabets & special characters. Refer LCD interfacing with PIC. Some special shapes like hearts, arrows, smileys etc. can...



24. [How to interface 16x2 LCD in 4-bit mode with PIC Microcontroller \(PIC18F4550\)](#) The 16x2 character LCD can work in two modes, namely, 8-bit and 4-bit. These modes basically correspond to the number of data pins used in interfacing LCD. 8-bit mode uses all the...



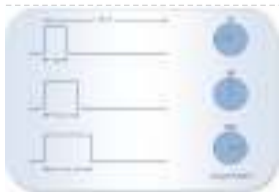
25. [How to use Timers in PIC18F4550 Microcontroller](#) Timers as the name suggests pertain to time-related operations. They are mostly used for exact delay generation. Timers are also used in various other operations like PWM signal generation, auto-triggering of...

26. [How to work with inbuilt Analog Comparators of PIC18F4550- \(Part 12/25\)](#) Analog comparator is an electronic device which compares the two voltage signals and provides TTL logic output to indicate the larger signal. The analog comparator is used in various applications...

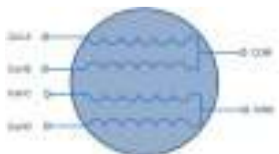


27. [How to interface GPS with PIC18F4550 Microcontroller- \(Part 16/25\)](#) Global Positioning System is based on satellite navigation technology. A GPS Receiver provides the accurate location of an object in terms of latitude and longitude. Accurate time calculation with respect to...

28. [How to interface Servo Motor with PIC Microcontroller- \(Part 21/25\)](#) Servo systems use the error sensing negative feedback method to provide precise angular motion. Servo Motors are used where precise control on angular motion is needed. Servo motors are widely used in...



29. [How to interface Stepper Motor with PIC18F4550 Microcontroller- \(Part 13/25\)](#) A Stepper Motor is a brushless, synchronous DC motor which divides a full rotation into a number of steps. For detailed information on working, types and stepping modes, refer the article on Stepper...




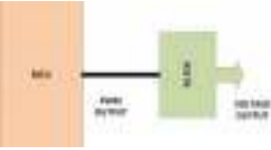
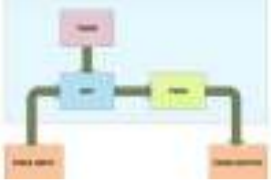


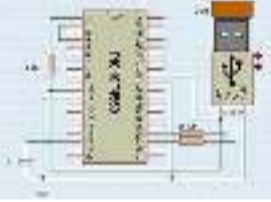







30. [How to interface GSM Module with PIC18F4550 Microcontroller- \(Part 17/25\)](#) The Global System for Mobile (GSM) communication is the Second Generation of mobile technology. Although the world is moving towards Third and Fourth generation but GSM has been the most successful and...



31. [How to Implement SPI Using PIC18F4550- \(Part 24/25\)](#) The Serial Peripheral Interface (SPI) is a high speed, synchronous, serial communication standard. This communication protocol is basically a Master – Slave implementation where the master device controls the

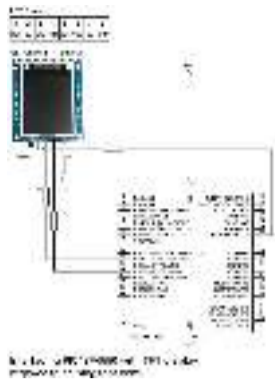


clock...

32.  [How to Generate Sound using PWM with PIC Microcontroller- \(Part 22/25\)](#) Pulse Width Modulation (PWM) is a technique in which the width of a pulse is modulated keeping the time period of the wave constant. The ON time and OFF time...
33.  [How to Glow an LED using PWM with PIC Microcontroller- \(Part 20/25\)](#) Pulse Width Modulation (PWM) is a technique in which the width of a pulse is modulated keeping the time period of the wave constant. One cycle has a fixed time...
34.  [How To Use PIC Microcontroller For Voice Input And Output- \(Part 23/25\)](#) Microcontrollers are purely digital devices which work on logic0 and logic1 voltages; still they are widely used for analog signal processing. There are specialized signal processors chips available which are custom...
35.  [Counting Signal Rising and Falling edge using Pic Microcontroller Timer-0](#) In this tutorial i am going to count the number of rising and falling edges of a square wave signal that is input to the pic microcontroller. The rising and...
36.  [MIKROPASCAL MIKROBASIC MIKROC PROJECTS](#) Micro-Electronica product areas owned by the user that sent the company projects in various fields has many applications with source code in some simulations, there proteus isis. Mikropascal Micro C...
37.  [PIC18F4550 PIC18F2550 USB PROJECT VISUALBASIC CIRCUIT](#) There are approximately 200 USB control software applications are generally prepared with the Visual Basic used PIC18F2550 microcontrollers, the PIC18F4550 codes written in C language. USB ADCs, etc. USB hidden....
38.  [PIC18F4550 USB MARQUEE DISPLAY SCROLLING TEXT CIRCUIT LED VISUALBASIC](#) Marquee displaying the text that is sent over the USB port circuit i. ... The program used to send text with visual basic source codes prepared and have built on...
39.  [GPS CIRCUIT BOATS COMPUTER PIC18F4550 MICROCONTROLLER](#) Generally known as PC Tools has prepared a project 😊 but siliconship in the boat's GPS system tracks the GPS module EM 408 and mikrodenetleric pic18f4550 usb connection to the...
40.  [USB THERMOMETER CIRCUIT CCS C PIC18F4550](#) Hi All You Guys. How long have you been working on CCS C. CCS will be able to see my level, so it is no longer something to do after...
41.  [ELECTRONIC PIANO USING PIC MICROCONTROLLER \(PIC18F4550\)](#) Electronic piano circuit PCB printed circuit board drawing upon the Pic18f4550 microcontroller PIC has been a regular speaker on the card directly to number 2 in the pin of this...
42.  [CCS C APPLICATIONS PROTEUS SIMLATIONS](#) Previously shared CCS C sample application circuit code archive (C and Hex Isis) is a large archive with all source codes and proteus simulation circuits such as CCS C projects...
43.  [4 PLAYER PONG GAME PIC18F4550](#) The PIC18f4550 microprocessor based pong game PIC18f4550 The first player to reach 20 points in the Pong Game wins the fireworks animation with leds. The PIC18f4550 works at 8MHz, the...
44.  [ESP8266 wifi module interfacing with pic microcontroller](#) Introduction ESP8266 module is low cost standalone wireless transceiver that can be used for end-point IoT developments. ESP8266 module enables internet connectivity to embedded applications. It uses TCP/UDP communication protocol...
45. [DEVELOPMENT BOARD PIC18F2550 PIC18F4550](#) PIC18F4550 and PIC18F2550 prepared for the experiment set of circuit than the regular seems simple, each chapter PCBs indicated on the layout also pretty good easily can be selected power...



46. [PIC18F4550 DEVELOPMENT BOARD AND PIC18F4550 EXAMPLES](#) PIC18F4550 for a simple handy trial development board and various application circuits are also circuits Eagle prepared by the PCB diagram drawings and PIC C language prepared by the software...
47. [PIC18F4550 USB DEVELOPMENT BOARD PROJECT CCS C](#) Microchip PIC18F4550 PIC18F series microcontroller with a quality test kit to test the cottage will provide great convenience USB SD / MMC card slot so the LCD connection. 's. CCS...
48. [MULTI-FUNCTIONAL PICMICRO DEVELOPMENT BOARD \(BREADBOARD SUPPORTED\)](#) quite an advanced picmicro trial, testing, project development cycle a lot of functions all resources shared also the circuit for testing c language prepared test program at (pic_board_test.c) had the...
49. [OPEN SOURCE PROJECT DEVELOPMENT PLATFORM JALUINO JALV2 PIC18F4550](#) One Arduino named hunting, ca based on the development project carried out was very popular a lot like made additional modules say in every country a system used was Sebastien...
50. [Real time clock & calendar with PIC18F4550 and DS3231](#) Interfacing PIC18F4550 with DS3231 RTC The DS3231 is a low cost , extremely accurate real time clock with a built-in crystal oscillator. The characteristics of the DS3231 make it one...
51. [Interfacing LM35 temperature sensor with PIC18F4550 microcontroller](#) Interfacing PIC18F4550 with LM35 This small topic shows the circuit diagram and CCS C code of the interfacing of LM35 temperature sensor with PIC18F4550 microcontroller. The LM35 temperature sensor is...
52. [Wave player using PIC18F4550 microcontroller](#) Making an audio player (.wav files) using PIC microcontroller is not complicated especially when the MCU has a PWM module. This topic shows how to build an audio player using...
53. [Remote controlled USB mouse using PIC18F4550](#) Building a USB mouse using PIC18F4550 microcontroller and CCS C compiler is easy as shown in the link below: USB Mouse using PIC18F4550 microcontroller Also, it is not hard to...
54. [SKIN TEMPERATURE MEASUREMENT](#) Abstract: This report represents the design and implementation of a skin temperature measurement system. The system aims to measure the skin temperature from a sensor and send it to the...
55. [Unipolar Stepper Motor Control From IR Remote Control Using PIC18F4550](#) This project shows how to control a 5V unipolar stepper motor from IR remote control uses NEC protocol with PIC18F4550 microcontroller. This controller controls the stepper motor speed and direction...
56. [CD-ROM BLDC motor controller using PIC18F4550 and L293D](#) In the following topic URL we've seen how to control BLDC motor speed and direction of rotation using PIC18F4550 microcontroller and 3-phase bridge circuit:CD-ROM Spindle motor (BLDC) control with PIC18F4550...
57. [433MHz RF remote control system based on PIC microcontroller](#) 5-Channel RF (Radio Frequency) remote control transmitter/receiver using PIC18F4550 microcontroller Today RF modules are widely used in many applications (wireless data transmission, quadcopter, car remote control...). This project shows how...
58. [Interfacing PIC18F4550 with 1.8" TFT display](#) This post shows how to connect ST7735S TFT display to PIC18F4550 microcontroller and display different things (numbers, text, lines, circles). The compiler used is CCS PIC C. To interface...



59. [Real time clock with remote control and ST7735 TFT display](#) (Some knowledge about RC-5 protocol is required) This project shows how to build a remote controlled real time clock with TFT display using PIC18F4550 microcontroller. In this project DS1307 RTC...
60. [Display BMP images from SD card on ST7735 TFT screen](#) This example shows how to display Bitmap (BMP) image files from SD card on ST7735 1.8" (128x160) TFT screen using PIC18F4550 microcontroller and CCS PIC C compiler. To build this...
61. [Real time clock with 2 alarms and temperature sensing using PIC18F4550 and DS3231](#) After the simple interfacing of the PIC18F4550 microcontroller with the DS3231 RTC, now let's add the alarms functionality and temperature monitor to our previous project. Interfacing PIC18F4550 with DS3231 project...
62. [Interfacing 16X2 LCD with PIC Microcontroller](#) In this session we will see how to interface 16x2 LCD to PIC18F4550 microcontroller which is of family PIC18F. You can get information of 16x2 LCD in the session How...
63. [How to display text on 16x2 LCD using PIC18F4550 Microcontroller](#) Several automated and semi-automated devices require a message to be displayed in order to indicate their working status. In continuation to LCD interfacing with PIC18F4550, this article explains how to...
64. [USB Project :- USB Interface Board Using PIC18F4550](#) USB PROJECT: - USB INTERFACE BOARD USING PIC18F4550 Microcontroller CONTROL - 6 LEDS C# software (4.0 .net framework) PIC18F4550 Firmware - for 6 LED's. TUTORIAL FOR BEGINNERS It's a...
65. [How to use inbuilt EEPROM of PIC18F4550 Microcontroller](#) The EEPROM (ELECTRICALLY ERASABLE PROGRAMMABLE READ ONLY MEMORY) is a very useful memory which can be used for storing data. The data storing and retrieving from any EEPROM memory is...
66. [24 Channel USB Connected LED Controller, upto 1A per Channel using PIC18F4550](#) 24 Channel USB Connected LED Controller, upto 1A per Channel This device is designed to be a versatile high-current LED controller, with the ability to sink or/and source currents up...
67. [Electronic Security System With RTC and User Define Pin Code](#) Hi Guys! This is a project that I made using pic microcontroller its an Electronic PIN Code Security System with real time clock and user define pin code features, this...
68. [HDD Clock – Persistence of Vision](#) 1. Quite a few POV clocks out there, why is this special? Well, mainly because it's mine. There are quite a few POV clocks out there on the web using...
69. [Ultrasonic Obstacle-avoiding Robot](#) This is my attempt at designing and building an obstacle avoiding robot! RekaBot (named after a fairy :) can detect obstacles with an ultrasonic sensor that can move around...
70. [How to create custom characters on 16x2 LCD using PIC18F4550](#) The 16x2 character LCD can also be used to display custom characters other than numerals, alphabets & special characters. Refer LCD interfacing with PIC. Some special shapes like hearts, arrows,...



71.



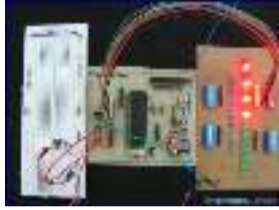
[Pinguino Project \(a PIC Microcontroller Based Arduino #No Programmer Required\)](#) Hey Guys i am Back after 2 months with Awesome Project, This is a Complete tutorial to make PIC Microcontroller based Arduino, which can run Arduino Programs on PIC18F4550 or PIC18F2550...

72.



[DHT22 \(AM2302\) Digital Humidity and Temperature Sensor Proteus Simulation](#) Like the DHT11, the DHT22 is a digital humidity and temperature sensor which has more benefits than DHT11 like: High precision and range. If we want to understand this topic...

73.



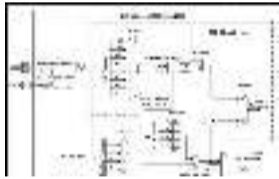
[How to work with External \(Hardware\) Interrupts of PIC18F4550](#) Interrupts are special events that require immediate attention. They cause the processor to cease the running task to serve a special task for which the interrupt event had occurred. After...

74.



[How to interface 16x2 LCD in 4-bit mode with PIC18F4550](#) The 16x2 character LCD can work in two modes, namely, 8-bit and 4-bit. These modes basically correspond to the number of data pins used in interfacing LCD. 8-bit mode uses...

75.



[PIC USB HID \(Human Interface Device\) Interfacing](#) For long time, UART is the only and best way to interface with PC. It is easy to adapt and handle. Though some devices (like: GSM modem etc.) have UART...

76.



[How to use PIC18F4550 as a SPI Slave Transmitter](#) The Serial Peripheral Interface (SPI) is a high speed, synchronous, serial communication standard. This communication protocol is basically a Master Slave implementation where the master device controls the clock based...

77.



[j. ICSP Programmer for PIC32 microcontroller family](#) PIC32 ICSP Programmer v1.0 is based on a simple PIC32MX270F256B microcontroller basic circuit. It connects to a PC via USB 2.0 port and therefore needs no external power supply. It...

78.



[A Minimal USB CDC ACM aka Virtual Serial Port](#) This page introduces a minimal firmware that implements a USB Virtual Serial Port for Microchip PIC18F4550 processor. The code has been optimized to use minimal amount of memory (both Flash...

79.



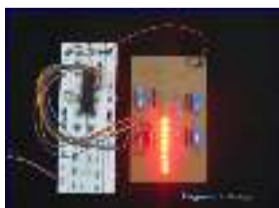
[Extend PIC Microcontroller's RAM by without using EMI](#) Introduction Virtually all PIC microcontrollers have some banking mechanism to extend addressing to additional memory space. But this external data memory is not directly addressable (except in some high versions...

80.



[USB:- DC Motor Controller using PIC18F4550 \(keyboard\)](#) USB:- DC Motor Controller using PIC18f4550 (keyboard) Hello friends, Requirements USB DEMO interface Board L293D motor controller chip Schematic This a small project on controlling D.C motor with USB pic18f4550...

81.



[How to interface LEDs with PIC18F4550 Microcontroller](#) It is necessary to understand basic I/O operations of PIC18F4550 before dealing with its complexities. This article presents a way to take simple output from a PIC microcontroller. This learning...

82.



[How to interface Servo Motor with PIC18F4550](#) Servo systems use the error sensing negative feedback method to provide precise angular motion. Servo Motors are used where precise control on angular motion is needed. Servo motors are widely...

83.

[Open Source Framework for USB Generic HID devices based on the PIC18F and Windows](#) Introduction If you've dabbled with PIC18F microcontrollers and the USB Generic HID standard before (perhaps you've even tried my Building a PIC18F USB device project) then you will have noticed that...



84.



[Building a PIC18F USB device](#) Introduction I get a number of emails every month asking about creating USB devices using the PIC18F microcontroller. After looking at projects such as my Atari Joystick USB Adaptor and...

85.



[Hello World Project With PIC Microcontroller – Part II](#) Hello Friends, Welcome back. In the last tutorial we started working with MPLab and HI-TECH C Compiler and written our first C program to blink LED. After compiling the program we...

86.



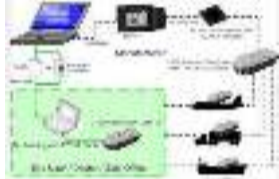
[PIC18F4550 – LCD display jhd162a \(2x16\) Interface](#) Project : Display control on a LCD (jhd162a) Requirements jhd162a LCD PIC18f4550 Here in this project the running display of the screen is been controlled by a PIC18f4550 board...

87.



[C# Software and Firmware, USB INTERFACE BOARD](#) C# Software Application and Firmware for PIC18F4550 Board To continue further with this project you would need to download my version of Firmware to control 6 LED's and a Software...

88.



[BOOTLOAD THE PIC18F4550 – FIRMWARE UPDATING](#) BOOTLOAD PIC18F4550 – FIRMWARE UPDATING SETTING THE PIC18F4550 IN RD/WR (BOOTLOAD) MODE FOR BOOTLOADING Loading / updating new code into the USB INTERFACE BOARD can be done with...

89.



[USocket – USB controlled Socket with PIC18F4550](#) Introduction The idea of this project is to control (switch off/on) two power sockets with a computer by using its USB port. I've chosen USB in first place because I...

90.



[USB Interface Demo Board Using PIC18F4550](#) PIC18F4550 USB DEMO INTERFACE BOARD PROJECT This project / USB hardware is quiet easy to make at home with few components, this piece of hardware will be detected by your...

91.



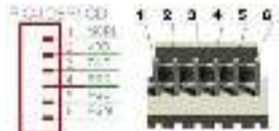
[Stepper Motor Driver using PIC18F4550 Microcontroller](#) Stepper Motor Tutorial In this tutorial we are going to drive a Single unipolar stepper motor using PIC18F4550 Microcontroller in various different stepping modes. The source code and Project files...

92.



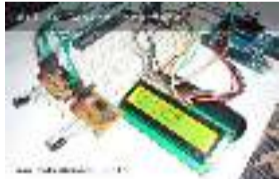
[PIC18F4550 Tutorial: Blink LED – 2](#) Hi welcome to my 4th chapter of PIC18F4550 programming. Here we are going to learn another methodology or technique for programming a pic18f microcontroller which would be helpful in future...

93.



[PIC18F4550 Tutorial: Blinking an LED](#) TUTORIALS PIC18F4550 Programming Tutorial in Hardware C PIC Tutorial, Mplab IDE - C18 compiler toolsuite PIC18F4550, Looking the data sheet | Ports PIC18F4550 Programming Blink led method 1 PIC18F4550 programming...

94.



[Interface single and Dual IR Infrared sensor with PIC18F4550 and LCD](#) In this another tutorial on sensors for beginners, we are going to interface single and multiple Infrared IR sensors with Arduino Uno development board, working simultaneously and have the status...

95.



[USB Interface Board Driver Installation PIC18F4550](#) USB Interface Board Driver Installation Connecting PIC18F4550 First Time This tutorial will try to explain how to make your interface development board to work for the first time. Without a...

96.



[Infrared \(IR\) Object Detection Module Circuit Using IR LED and Photodiode](#) How to make Infrared (IR) sensor Object Detection Module Circuit Using IR LED and Photodiode The IR Object Detection sensor module is quiet easy to make. This sensor circuit below...

97. [Whac-a-Veggie using PIC18F4550 microcontroller](#) Whac-a-Veggie For this year's Trunk 'O' Treat game I wanted to make a something fun and exciting for kids to play so I choose a Whac- a-Mole type game called...



98. [USB Stepper Motor Driver using pic microcontoller](#) USB Stepper Motor Driver In this project we are going to drive a unipolar Stepper motor (5 wire) using USB interface from a PC Computer. This project is an application...



99. [Introducing PIC Microcontroller projects](#) PIC Microcontroller Development Tools History PIC microcontroller Development Board (Completed on 2006-10-28) The ultimate PIC Microcontroller development board. After years of programming PIC microcontroller, I have finally design my super...



100. [PIC18F2550 : Blink LED using XC8 Compiler](#) Welcome to another chapter of PIC18F programming Tutorial. In this chapter we are going to program a simple 28 pin PIC18F2550 microcontroller using mplabx IDE and XC8 Compiler. The concepts...



101. [USB Interface Board Tutorial Using PIC18F4550](#) USB Interface Development Board Tutorial -1 STAGE/PART-1 MAKING OF THE MAIN CIRCUIT BOARD CONTROL YOUR DEVICES FROM COMPUTER USING USB PORT – pic18f4550 + MPLAB IDE INTRODUCTION (USB PROJECT)...



102. [Infrared IR Sensor Interface with PIC18F4550 Microcontroller](#) IR Sensor Interface with PIC18F4550 In my previous project we have made a simple IR sensor Circuit. In this project, as promised before – we are going to demonstrate a...



103. [Stepper Motor Speed Control with PIC18F4550](#) Stepper Motor Drivers USB Stepper Motor Driver Stepper Motor Driver PIC18F4550 --Stepper Motor schematics Stepper Motor Speed Controller Stepper Motor driver PIC18F2550 IR Interterface to Stepper Motor Stepper Motor Speed...



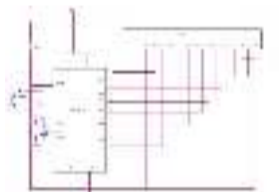
104. [Stepper Motor Driver using PIC18F4550 Microcontroller](#) Stepper Motor Tutorial In this tutorial we are going to drive a Single unipolar stepper motor using PIC18F4550 Microcontroller in various different stepping modes. The source code and Project files...



105. [How to configure EUSART in PIC18F4550](#) Both, Parallel and Serial modes of communication have certain advantages and disadvantages over one another. The serial communication is a preferred option due to its ability of long distance communication...



106. [Interfacing 16X2 LCD with PIC Microcontroller](#) In this session we will see how to interface 16x2 LCD to PIC18F4550 microcontroller which is of family PIC18F. You can get information of 16x2 LCD in the session How...



107. [The chipKIT™ UNO32™ and MAX32™ development boards for the Arduino™ Community](#) Microchip Technology Inc., a leading provider of microcontroller, analog and Flash-IP solutions, and Digilent, Inc. announced expanded capabilities for the 32-bit PIC32 microcontroller-based chipKIT™ Development Platform for the Arduino™ community....



108. [PIC MICROCONTROLLER PROJECTS AND LCD CIRCUITS](#) Here is 0 to 99 minutes relay timer using PIC16F628 microcontroller and 16 character LCD display. The microcontroller is PIC16F628A running at 4.0 MHz clock using an external crystal...



109. [How to Create a Beer Bottle LED VU Meter](#) Create your own Beer Bottle LED Volume Unit Meter! This instructable will show you how to create a LED beer bottle VU Meter. A volume unit meter is a device...



110. [How to interface GPS with PIC18F4550 Microcontroller](#) Global Positioning System is based on satellite navigation technology. A GPS Receiver provides the accurate location of an object in terms of latitude and longitude. Accurate time calculation with respect...



111. [Pinguino Egypt – PIC Based Arduino](#) It 's been eleven years since I first started learning and building my first Microchip PIC Microcontroller circuit. I really like this Microcontroller family. Recently, I started reading and trying...



112.



[How to work with inbuilt ADC Module of PIC18F4550](#) A microcontroller, a digital device, can read, execute and transmit only digital signals. On the contrary, the outputs of the most of the transducers are analog in nature. Thus it...

113.



[IR-Sensor Circuit and Interfacing with PIC Microcontroller](#) An IR sensor is an electronic device, that produces in order to detect some parts of the environs. An infrared sensor can measure the heat of an object as well...

114.



[PIC Development Board – Hello World Project](#) Hello friends, welcome to this exciting tutorial were we will begin our journey with latest PIC18F micros from Microchip Technologies. This tutorial will give you information on what software/hardware you...

115.



[rtc microcontroller](#) Interfacing an SPI-Interface RTC with a PIC Microcontroller - Maxim Application note describing how to interface an SPI-interface RTC with a PIC microcontroller. . PIC, real time clock, RTC, spi...

116.



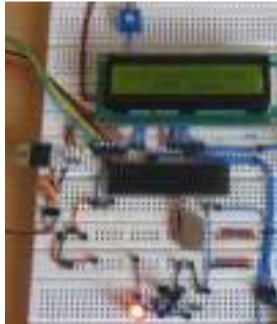
[How to interface RFID with PIC18F4550 Microcontroller](#) RFID (Radio Frequency Identification and Detection) is widely used everywhere from highly secured defense laboratories to school attendance system. By employing RFID, much secured entry systems can be developed without...

117.



[How to Build your Own USB PIC Programmer?](#) This DIY PIC programmer is a continuation of our PIC programming basics tutorial. By using this USB PIC programmer, you can program microchip PIC series of 10F, 12F, 16F, 18F,...

118.



[How to Glow an LED using PWM with PIC Microcontroller](#) Pulse Width Modulation (PWM) is a technique in which the width of a pulse is modulated keeping the time period of the wave constant. One cycle has a fixed time...

119.



[How to Implement SPI Using PIC18F4550](#) The Serial Peripheral Interface (SPI) is a high speed, synchronous, serial communication standard. This communication protocol is basically a Master – Slave implementation where the master device controls the clock...

120.



[How to Generate Sound using PWM with PIC Microcontroller](#) Pulse Width Modulation (PWM) is a technique in which the width of a pulse is modulated keeping the time period of the wave constant. The ON time and OFF time...

121.



[How To Use PIC Microcontroller For Voice Input And Output](#) Microcontrollers are purely digital devices which work on logic0 and logic1 voltages; still they are widely used for analog signal processing. There are specialized signal processors chips available which are...

122.

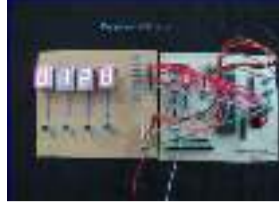


[Blink LED with XC8 compiler using external Oscillator](#) In the simple tutorial we are going to blink few simple led with PIC18F microcontroller, using an external 20MHz crystal oscillator and the '_Delay ()' function of XC8 Compiler. Most...

123. [Audio spectrum analyzer using PIC18F4550](#) Introduction This project implements a real-time audio spectrum analyser using a PIC18F4550 8-bit microcontroller. The spectrum frequency analysis is performed by a highly optimised 16-bit Fast Fourier Transformation (FFT) routine...



124.



[Seven Segment Multiplexing using PIC18F4550 Microcontroller](#) As explained earlier, a seven segment interfaced with PIC uses almost an entire port (minimum 7 pins) to display a value. But a real time application, like watch, calculator etc.,...

125.



[Minty JDM PIC Programmer using PIC18F4550 microcontroller](#) Minty JDM PIC Programmer This project details how to build a JDM style programmer to program PIC Microcontrollers using Microchip's ICSP (In Circuit Serial Programming) and freeware software (PICPgm). Total...

126.



[Spectrum analyzer based PIC18F4550](#) The project demonstrates the implementation of the sound spectrum analyzer for 8-bit microcontroller PIC18F4550 manufactured by Microchip . Spectrum analysis is performed using an optimized fast Fourier transform algorithm (Fast...

127.



[How to burn or program PIC Microcontroller?](#) This DIY PIC programmer is a continuation of our PIC programming basics tutorial. By using this USB PIC programmer, you can program microchip PIC series of 10F, 12F, 16F, 18F,...

[Turnkey PCB Assembly](#)

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










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