Microcontroller PIC Projects are categorized on the basis of microcontroller applications. Microchip PIC microcontrollers belong to modern family of MCUs and is being used widely in our daily life seem-less manners, e.g. in our multimedia devices, tele-phones, microwave ovens, medical and health based equipments e.g. blood-pressure meter, UPS, Power supplies, burglar alarms & detectors and other security and safety equipment, etc. There are hundreds of projects in this site. Click here to see category based projects.

Want to get Offline Projects List in PDF format: Click here you can find compiled PIC projects lists in PDF format for offline view.

- Pic 16F676 ICSP programing socket for the PICkit 2 programer Posted in: Microcontroller Programmer Projects, Projects
- 48 Channel Mono / 16 Channel RGB LED Controller using PIC18F2550 microcontroller Posted in: Interfacing(USB – RS232 – I2c - ISP) Projects, LED Projects, Projects
- Mood vase using PIC12F683 microcontroller Posted in: Home Automation Projects, LED Projects, Projects
- Simple JDM PIC Programmer using PIC16F84A microcontroller Posted in: Other Projects, Projects
- DC motor control with Joystick and PIC16F877A Posted in: Motor Projects, Projects
- How to make a Clap-Clap on / Clap-Clap Off switch circuit! using PIC10F222 Posted in: How To – DIY – Projects, Projects
- Control a Hobby Servo using PIC18F2455 microcontroller Posted in: Other Projects, Projects
- PIC development/testing board using PIC16F877 microcontroller Posted in: Development Board – Kits Projects, Projects
- 3x3x3 LED Cube using PIC16F690 microcontroller Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects, LED Projects, Projects
- PIC18F Based 6 Channel DMX Transmitter Posted in: Projects, Radio Projects
- All pic programmer using 16F87X microcontroller Posted in: Microcontroller Programmer Projects, Projects
- Cheap PIC controlled Helmet Camera using Sony LANC (Good for Extreme Sports) using PIC16F890 Posted in: Other Projects, Projects
- ECG on your laptop using PIC16F876 microcontroller Posted in: Medical – Health based Projects, Projects
- Augmenting a Microcontroller using PIC16F886 Posted in: Other Projects, Projects
- Quick Key Adapter, 10 Button HID Keyboard using PIC18F14K50 Posted in: Other Projects, Projects
- PWM Fan Controller using PIC12F675 microcontroller [Projects, PWM Projects]
- Frequency Detector using PIC 12F683 Processor [Projects, Sensor – Transducer – Detector Projects]
- Twitter Watcher, the #twatch using PIC18F6760 microcontroller [Projects, LCD Projects, Projects]
- Parallel Port 3 Axis CNC Driver, Opto-Isolated, Unipolar Steppers using PIC16F876A microcontroller [Projects, Motor Projects, Projects]
- LED Binary Clock using PIC16F628A microcontroller [Clock – Timer Projects, LED Projects, Projects]
- I2C keypad using PIC18F4550 microcontroller [Interfacing(USB – RS232 – I2c -ISP), Projects, Projects]
- Power Pic RGB with voltage control using PIC12F675 [Other Projects, Projects]
- 7-Segment ASCII character Set A 127-character ASCII table for 7-segment LED or LCD displays using PIC16C84 [LCD Projects, LED Projects, Projects]
- How to getting started with microcontrollers projects using PIC12F629 microcontroller [Microcontroller Programmer Projects, Projects]
- PicPOV – Persistence of Vision with a PIC18F1220 [LED Projects, Projects]
- A simple display that uses the POV to display messages in the air using PIC12F629 microcontroller [Other Projects, Projects]
- A 12hr/24hr LED Clock with display control using PIC16F628A microcontroller [Clock – Timer Projects, LED Projects, Projects]
- PIC sound player (PCM to PWM converter) using PIC18F1320 [Projects, Sound – Audio Projects]
- Classic LED 7-Segment Displays using PIC16F887 [Projects, LED Projects, Projects]
- NOPPP, the "No-Parts" PIC Programmer using PIC16F83 [Microcontroller Programmer Projects, Projects]
- Infra/radio remote control transmitter/receiver with PIC16F630 [Internet – Ethernet – LAN Projects, Projects, Radio Projects]
- Grid Powered Battery Charger – The Plans using PIC16F676 [Battery Projects, Projects]
- Countdown Timer using PIC16F84 microcontroller [Clock – Timer Projects, Projects]
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- Brushed Motor ESC using PIC12F675 microcontroller [Motor Projects, Projects]
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- Designing a PID Motor Controller using PIC16F876 [Motor Projects, Projects]
- Serial Port Servo Controller using PIC16F84 [Interfacing(USB – RS232 – I2c -ISP), Projects, Motor Projects, Projects]
- Caller Line Identification (CLI) using PIC16F628A [Phone Projects, Projects]
- DC motor speed control using PWM using PIC16F876 [Motor Projects, Projects, PWM Projects]
- My GPS LCD Display Project using PIC16F84 [GPS Based Projects, LCD Projects, Projects]
- Ir Light Dimmer v.1 adjusting lights with remote controller using PIC12F629 [Home Automation Projects, Projects]
- IK3OIL 16F84 PIC Frequency Counter Files [Clock – Timer Projects, Projects]
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- Pickit 2 Download & Develop Your own USB pickit ii programmed Posted in: How To – DIY – Projects, Microcontroller Programmer Projects, Programmers, Projects
- RGB LED PWM Driver Standalone PWM controller for RGB LEDs using PIC12F629 Posted in: LED Projects, Projects, PWM Projects
- RGB LED Strip Controller high-side LED drive for PIC12F629 Posted in: LED Projects, Projects
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- 4 Channel DMX512 Driver for PIC16F1823 Posted in: Development Board – Kits Projects, Projects
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Serial LCD Module using PIC16F88 Posted in: LCD Projects, Projects

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Precision Delay Timer for PIC16F628A Posted in: Clock – Timer Projects, Projects

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 Basic PIC circuit is not working
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Universal Driver & Dev Board using PIC16FPosted in: Development Board – Kits Projects, Projects

FEEDBACK / SUGGESTIONS
Feedback / Suggestions
• **Alchemist Forseti APD15A RC Integrated amplifier** Posted in: Sound – Audio Projects
• **Repair of Arcam CD73 laser mechanism** Posted in: Video – Camera – Imaging Projects
• **eDrum – Trigger MIDI Converter using PIC16F877** Posted in: Projects, Sound – Audio Projects
• **Marantz CD63SE laser transport mechanism replacement** Posted in: Video – Camera – Imaging Projects
• **PIC16F877 Development Board v. 1.2** Posted in: Development Board – Kits Projects, Projects
• **How to set up your B&W Zeppelin Air** Posted in: Sound – Audio Projects
• **Electronic Quiz Buzzer Circuit Diagram using PIC Microcontroller** Posted in: LED Projects
• **Circuit-Zone.com – Electronic Projects** Posted in: LED Projects
• **PIC Microcontroller Architecture and Applications** Posted in: Microcontroller Programmer Projects
• **Electronic Distance Meter using pic microcontroller** Posted in: LCD Projects, Metering – Instrument Projects
• **Automatic Temperature Control System using PIC Microcontroller – XC8** Posted in: Temperature Measurement Projects
• **A simple programmer for PIC microcontrollers** Posted in: Microcontroller Programmer Projects
• **PIC – First Project** Posted in: Other Projects
• **Microchip – Let my robot see! using pic microcontroller** Posted in: Robotics – Automation Projects
• **Self-made development board for the 32-bit PIC32MX220F032B Microcontroller** Posted in: Development Board – Kits Projects
• **Low cost temperature data logger using PIC and Processing** Posted in: Temperature Measurement Projects
• **GPS-based universal clock generator using PIC16F628** Posted in: Clock – Timer Projects, GPS Based Projects, Projects
• **Obstacle Sensing Walking Stick for Visually Impaired Persons : Block Diagram** Posted in: Sensor – Transducer – Detector Projects
• **Interfacing 16X2 LCD with PIC Microcontroller** Posted in: LCD Projects
• **Automatic door lock system using 8051(89c51,89c52) microcontroller** Posted in: Home Automation Projects
• **DIY MIDI controllers using PIC microcontrollers and Basic Stamps using pic microcontroller** Posted in: How To – DIY – Projects
• **Very Accurate LC Meter based on PIC16F628A** Posted in: LCD Projects, Metering – Instrument Projects
• **EMDP1 — Extensible Multiple Device Programmer 1 (Rev. C) using pic microcontroller** Posted in: Microcontroller Programmer Projects
• **10 tricks for interfacing to the PIC16C508** Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects, LED Projects
• **Automatic door opener with PIC12C508 Circuit** Posted in: Home Automation Projects
• **DS18S20 Dual Temperature Meter using pic microcontroller** Posted in: Metering – Instrument Projects, Temperature Measurement Projects
• **The Saltwater etch process using PIC16F54 microcontroller** Posted in: Other Projects, Projects
• **A discussion on the drive-current for the outputs of a PIC12C508A microcontroller** Posted in: Battery Projects, Interfacing(USB – RS232 – I2c -ISP) Projects
• **Wisp628 an in-circuit flash PICmicro Programmer** Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects
• **Night Light Saver V3.2 (PIC12C508)** Posted in: LED Projects
• **Schematics and C code for a 0-5V PIC LCD Volt Meter. using pic microcontroller** Posted in: LCD Projects, Metering – Instrument Projects
• **Making a binary clock using a PIC Microcontroller** Posted in: Clock – Timer Projects
• **Relay Timer with PIC16F628** Posted in: Clock – Timer Projects, LCD Projects
• **Rotary Encoders** Posted in: LED Projects, Motor Projects
- Implementation USB into microcontroller: IgorPlug-USB (AVR) using pic microcontroller
- Interfacing 7 segment display with pic16f877 microcontroller
- A Real Time Clock IC (DS1307) project using the PIC micro
- Prometheus/Pandora’s Box using PIC12C508 microcontroller
- PIC based WWVB clock
- Reading Nintendo 64 controller with PIC microcontroller
- New Earth Time digital clock in recycled retro-modern case using PIC16F627A
- LED Matrix Backpack
- Interfacing of PIC16F84A with (i2c based) 24LC64 EEPROM (Code + Proteus simulation)
- GSM based Control System by pic microcontroller
- MintLite Part I
- PIC Controlled Relay Driver using pic microcontroller
- Interfacing with The Energy Detective using pic microcontroller
- Water Filter Controller
- How to interpret the direction of rotation from a digital rotary switch with a PIC using PIC16F877A
- Iron in the Fire II
- LED Sensors
- Rotary dialer PIC interface using PIC16F877
- Contactless Digital Tachometer using PIC Microcontroller
- PIC Industrial and Domestic Timer (Relay Controlled)
- Aurora 48 – 48 RGB LED Sequencer
- ISD2560 Voice Recording Playback Project PIC16F84 Controlled
- True USB QQ-4X Programmer using pic microcontroller
- Mini F1 race track Grid Start Lights using PIC12F627A
- DIY plug-ins modules to make microcontroller breadboarding easier
- A remote controlled power RGB LED mood light using PIC16F627A
- Low cost OLED module interface using PIC18F452
- Microcontroller with single LED Project in Proteus
- Aurora 9 bar – The Essence of Aurora using PIC24F08KA101
- USB Voltmeter using pic microcontroller
- PIC16F84 Introduction
- IRMimic™ Trainable IR Remote Control Transmitter using pic microcontroller
- LED Strobe for PIC12F629 / 675
- Whac-a-Veggie using PIC18F4550 microcontroller
- Dialing Alarm using PIC16F628 Microcontroller
- DC motor control with Joystick and PIC16F877A
- A Word Clock using PIC16F877 microcontroller
- Ways you can use the DDS Daughtercard
- Misc Projects: High Power RGB LED Controller
- Nike+iPod reverse engineering (protocol too) using pic microcontroller
DCF77 clock-thermostat using PIC16F648A
Augustus’s Lab Notebook using pic microcontroller
Throbbing Apple Logo Sticker using PIC10F206 microcontroller
Programmable watch with four character display using PIC16F628A microcontroller
IR(infrared) Remote Control Relay Board with PIC 12F675 Microcontroller
PIC’ing the MAX5581: Interfacing a PIC Microcontroller with the MAX5581 Fast-Settling DAC
LED fireflies prototype using PIC12683 microcontroller
RGB LED PWM Driver for High Power 350mA LEDs V3 using PIC12F629
Open Automaton Project
Building the Mongoose Mechatronics Robot: Part 1 Chassis & Gearbox using PIC18F2525
PIC16C74 Embedded 10BaseT Ethernet CS8900
Experimenter’s board for enhanced mid-range PIC microcontrollers (PIC16F1827 and PIC16F1847)
Infrared (IR) Object Detection Module Circuit Using IR LED and Photodiode
PIC16F877 based controllable digital clock using LCD display (Code+Proteus simulation)
USB Interface Board Driver Installation PIC18F4550
Interface single and Dual IR Infrared sensor with PIC18F4550 and LCD
Daft Punk Table Replica Graphics Controller using PIC18F2550
Frankenbear Synthamajig using PIC16F877 microcontroller
4 Channel DMX512 Driver for PIC16F688
MEASURING HEART RATE USING A PHOTOPLETHYSMOGRAPHIC CARDIOTACHOMETER using pic-microcontroller
USB Interface Demo Board Using PIC18F4550
In circuit serial programmer for PIC16F87X
USocket – USB controlled Socket with PIC18F4550
BOOTLOAD THE PIC18F4550 – FIRMWARE UPDATING
Temperature Recorder using PIC12F683 microcontroller
3-Switch Mini IR Remote Control for PIC10F200
C# Software and Firmware, USB INTERFACE BOARD
PIC18F4550 – LCD display jhd162a (2×16) Interface
Feedback / Suggestions
PICADC – a free, PIC based “intelligent” A/D converter using PIC16F84

Bicycle Persistence of Vision Light Display — February 2007

A simple 50 MHz diy microwattmeter using PIC16C84

Peltier-Powered Drink Cooler!

PIC16C63 Midi controlled Light dimmer

LED-Guided Piano Instruction using pic microcontroller

automatic power factor controller using microcontroller

Picaxe Blending Nightlight using pic12f683

Ic meter capacimeter inductimeter circuit pic 16f84 auto range Icmeter

Introducing the BOLT PIC18F2550 Microcontroller Board using pic microcontroller

Mark Microchip PIC32MX ICSP

Water Wave/Tide/Level Meter 2.0 using PIC16F88

Fun with Voltage Regulators

Rotating Sprocket Wheel Generator using PIC16F84

PIC Based Oscilloscope Clock

Lab 3: Four bit binary counter using PIC16F88

How to Program a PIC Microcontroller & Read an Encoder

PIC16F688 breadboard module for quick prototyping

Building the Inchworm LCD PIC Programmer / Debugger

2-wire LCD interface using PIC16CF84

PIC 16F917 Microcontroller Programmer

The Talking Breathalyzer Mark II using PIC18F1220

Idc To Usb Converter Circuit Diagram

Alarm Clock using PIC16F74 microcontroller

Balanced Line Attenuator

Hello World Project With PIC Microcontroller – Part II

3-Channel IR Relay Controller with user programmable IR commands for PIC12F629

Two-Channel PC Based Oscilloscope USB

PIC microcontroller ATA library

Cheap PIC Programmer using PIC16F84 microcontroller

Using Digole 12864ZW LCD with PIC18F

USB Audio Streamer A Microchip PIC based USB sound card

Quozl’s Alarm Clock using PIC16F877

Simplest Temperature Data Logger using PIC12F683

PIC12F1840 + I2C 24FC1025 EEPROM

PIC 16F917 Gyroscope interface

Building a PIC18F USB device

tternetworking with microchip microcontroller pic18f+enc28j60

PIC16F84 Fundamentals

Microprocessors Garland

Motion Activated Led Dice using PIC16F688

Battery charger with PIC12F683

9 Volt Battery Charger
• LED dot matrix scrolling message – 14×5 – source code  Posted in: LED Projects
• Mechanically scanned laser display using PIC17F877  Posted in: LCD Projects, Projects
• Max the Spider – powered by LEGO and PIC microcontroller  Posted in: Game – Entertainment Projects
• How to make a ‘Propeller Display’ using PIC microcontroller  Posted in: Development Board – Kits Projects
• Poor man’s counter using PIC16F84 microcontroller  Posted in: Other Projects, Projects
• PIC Game System  Posted in: Game – Entertainment Projects
• Pulsing Hubby Detector using PIC12f683 microcontroller  Posted in: LED Projects, Projects
• Interfacing the AT keyboard.  Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects
• Building the PIC16F84 based game system  Posted in: Game – Entertainment Projects
• Chronograph for Air Cannon using PIC16F628A microcontroller  Posted in: Other Projects, Projects
• PIC-Tetris  Posted in: Game – Entertainment Projects
• Low cost temperature data logger using PIC and Processing using PIC12F1822  Posted in: Projects, Temperature Measurement Projects
• SX Game System  Posted in: Game – Entertainment Projects
• Microchip PIC Microcontrollers  Posted in: Development Board – Kits Projects
• SX-Tetriss  Posted in: Game – Entertainment Projects
• Leaving home light using PIC12F675 Microcontroller  Posted in: Home Automation Projects, Projects
• SX-Pong  Posted in: Game – Entertainment Projects
• Displaying text on LCD by interfaced with PIC16F877 microcontroller in 4 bit mode  Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects, LCD Projects
• Build yourself flashing message on PIC16F877A with assembler  Posted in: Other Projects
• PBUS – an RS485-like multi-drop bus with half duplex serial protocol  Posted in: Other Projects
• Virtual Game System – A game console with a mechanically scanned display.  Posted in: Game – Entertainment Projects
• Embedded Linux Controller using pic microcontroller  Posted in: LCD Projects
• DIAL ALARM-1  Posted in: Clock – Timer Projects
• Virtual Pond  Posted in: Game – Entertainment Projects
• Virtual Tetriss  Posted in: Game – Entertainment Projects
• PIC16F84A LCD interfacing code (using 3 pins only) + Proteus simulation  Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects, LCD Projects, Projects
• Virtual Tetriss  Posted in: Game – Entertainment Projects
• MikroElektronika’s “Ready for PIC” board talks to “Processing” using PIC16F887  Posted in: Clock – Timer Projects, Development Board – Kits Projects, Other Projects, Projects
• How to choose a MicroController using PIC16C84 microcontroller  Posted in: Development Board – Kits Projects, LCD Projects, Projects
• Mechanically scanned RS232 display (with dynamic speed)  Posted in: Metering – Instrument Projects
• Solar Recorder  Posted in: Other Projects
• Humidity and temperature measurements with Sensirion’s SHT1x/SHT7x sensors using PIC18F2550 (Part 1)  Posted in: Projects, Sensor – Transducer – Detector Projects, Temperature Measurement Projects
• PIC10F200 based dice  Posted in: LED Projects
Projects

- Rev 4.2.2 schematic and PCB Posted in: Development Board – Kits Projects
- Project Ryu Lagger – Guitar Effect Posted in: Sound – Audio Projects
- Getting started with PIC Microcontroller Programming Posted in: Microcontroller Programmer Projects
- How to interface Servo Motor with PIC18F4550 Posted in: How To – DIY – Projects, Motor Projects, Projects, Tutorials
- TAXI PHONE Posted in: Phone Projects
- Servo Motor Control using Microcontroller PIC16F877A Posted in: Motor Projects
- Electronic Die using PIC16F84 microcontroller Posted in: Development Board – Kits Projects, LED Projects, Projects
- How to interface LEDs with PIC18F4550 Microcontroller Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects, LED Projects, Projects
- SMS Based Device Control using GSM Modem Posted in: Home Automation Projects
- Rubidium Atomic Clock Posted in: Clock – Timer Projects
- 8 Channel PWM LED Chaser for 16F628A and 16F88 Posted in: LED Projects
- Build your own “2-Wire LCD Interface” using the PIC16C84 microcontroller Posted in: LCD Projects
- “Fluffy” – A Scenix (and PIC) Programmer Posted in: Microcontroller Programmer Projects
- GSM Modem Interface with PIC 18F4550 Microcontroller Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects
- PIC PROGRAMMER MkV using PIC12F629 Posted in: Blog, Microcontroller Programmer Projects, Projects
- Capacitance Meter MkII using PIC16F629 Posted in: Metering – Instrument Projects, Projects
- How to Interface I2C External EEPROM 24LC64 to PIC Microcontroller Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects
- Almost No Parts’ 12/24hrs LED Clock using pic microcontroller Posted in: Clock – Timer Projects
- PCB layouts using CAD Posted in: Other Projects
- 18 pin PIC Development Board using PIC16F62 Posted in: Other Projects, Projects
- One Chip Video Poker using PIC16F628 microcontroller Posted in: Game – Entertainment Projects, Projects
- Fun with PCBs Posted in: Game – Entertainment Projects
- PIC programmers for parallel port! Posted in: Microcontroller Programmer Projects
- Breadboard module for PIC16F628A Posted in: Development Board – Kits Projects, Projects
- SD/SDHC CARD SOUND RECORDER Posted in: Sound – Audio Projects
- PIC 16C84 VT-52 Emulator for Linux Posted in: LCD Projects
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- Telephone operated remote control using PIC16F84A microcontroller Posted in: Home Automation Projects
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- Nokia 1100 LCD Interfacing with Microcontroller Posted in: Interfacing(USB – RS232 – I2c -ISP) Projects, LCD Projects
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Using Push Button Switch – MPLAB XC8 Posted in: LED Projects
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Single Chip Temperature Data Logger Posted in: Temperature Measurement Projects
Custom Characters on LCD using PIC – MPLAB XC8 Posted in: LCD Projects
4 ALARM SOUNDS using PIC12F629 Posted in: Projects, Security – Safety Projects
Interfacing LCD with PIC Microcontroller – Hi Tech C Posted in: LCD Projects
Schematic PIC Data Logger with Delta-Sigma Converter Posted in: Other Projects
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DC Motor Speed Control using PWM with PIC Microcontroller Posted in: Motor Projects
Aurora 48 – 48 RGB LED Sequencer using PIC24FV16KA304 Posted in: LED Projects, Projects
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The simple Joule Thief Posted in: LED Projects
Interfacing Matrix Keypad with PIC Microcontroller Posted in: Calculator Projects
LED Christmas Cards using PIC 10F200 Posted in: LED Projects
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