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Jayesh Ruikar*

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Motion detector circuit using PIR sensor and pic microcontroller. Pir sensor has many applications like motion detection burglar alarm and many other applications.

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Example, adding a sensor to the iRobot –
Starting with a conceptual intention –
Finding the right pin –
ADC & I/O pin electrical properties •
What can drive what, supply V & mA to sensors, motors, audio, LEDs. What is open collector, TTL level. –
Sensor's electrical properties • Amplifier,

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optoisolator e.g. 110

VAC or sensitive/HV
input

Interfacing Sensors and Actuators - Ptolemy Project

In this tutorial we are
going to see LDR
Sensor Interfacing with
PIC16F877A.

Prerequisites Before
start this tutorial we
should know below

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topics. If you know
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sensors are interfaced
with microcontroller
that is connected to a
PC. Temperature
sensors connected are
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microcontroller with the
help of analog to digital

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converter. As, the signal generated from sensors is analog, so these analog signals are converted into digital and then fed to the microcontroller.

Applications of Interfacing Devices with Microcontroller

we need to measure these pulses train and find a way to extract

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data from these pulses. To get these pulses from sensor, we first need to send start signal in the form of pulse from microcontroller to DHT11 sensor. After that DHT11 sensor sends data to microcontroller in the form of pulses. It takes around 45ms to complete this process.

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DHT11 sensor interfacing with pic16F877A microcontroller

Microcontrollers have become very useful in embedded design as they can easily communicate with other devices, such as sensors, switches, LCD displays, keypads, motors and even other microcontrollers. A

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microcontroller is basically used as the brain or intelligent processing unit to control other devices connected (interfaced) to it in embedded systems just like a PLC in industrial automation.

Interfacing Devices with PIC Microcontroller ...

In this tutorial, we'll discuss how to interface

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the LM35 temperature sensor with a PIC microcontroller. Using the ADC to get the analog output voltage of the sensor then converting it back to Celsius degrees, and finally display the result on an LCD and also send it via serial port to a host PC to monitor the temperature remotely.

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Temperature Sensor

LM35 Interfacing With
PIC Microcontrollers

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V. Deshmukh(Page
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by BiPOM Electronics,
INC (www.bipom.com)
Presented by :- Diwaker
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Interfacing methods of microcontroller

Techniques like Physical quantities like Humidity, temperature, pressure etc. are monitored to get information about the environmental conditions. Various sensors are being used to measure these quantities in analog form. This article

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Demonstrates the principle and operation of interfacing the humidity sensor with 8051 microcontroller (AT89C51). The humidity sensor is widely used in applications like weather ...

[How to interface Humidity Sensor with 8051 Microcontroller ...](#)

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The most popularly used Temperature sensor next to LM35 is the DHT11, we have previously built many DHT11 Projects by interfacing it with Arduino, with Raspberry Pi and many other development boards. In this article, we will learn how to interface this DHT11 with PIC16F87A which is an 8-bit PIC

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It is indubitably established verity that sensors revitalize the everyday life of a human being. The sensor technology in itself is a multidisciplinary and the researchers are striving hard to develop

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To Sensor Interfacing Techniques
Researchers in this field, the book presents know-how as regards to the various sensor

interfacing techniques to microcontroller. The coverage is well supported by means of appropriate pseudo code, 'C' based code and so on. Authors have also referred the prior art from various research journals, web URLs and

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To same is placed for the benefit of the potential readers. The interfacing diagrams are meant for a generic microcontroller paradigm and needs customization when intended to be implemented in real life. The book is apt for the entire Electronics and sensor fraternity and is all set to arouse the

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interest of the researchers in this area of ever-increasing technological importance.

This book presents ways of interfacing sensors to the digital world, and discusses the marriage between sensor systems and the IoT: the opportunities and challenges. As sensor

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engineers and scientists in the area of sensors and interfacing wanting to update their knowledge of the latest developments in the field and learn more about sensing applications and challenges.

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already familiar with another microcontroller, who require a quick tutorial on the microcontroller, will find this book very useful. This second edition introduces the MSP-EXP430FR5994 and the MSP430-EXP430FR2433 LaunchPads. Both LaunchPads are equipped with a variety of peripherals and

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Ferroelectric Random Access Memory (FRAM). FRAM is a nonvolatile, low-power memory with functionality similar to flash memory.

Tactile sensors are basically distributed sensors which translate mechanical and physical variables and pain stimuli into electrical

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variables. Contact information is further processed and conveyed to a supervising system.

Tactile arrays ought to be mechanically flexible (i.e., conformable to the object it is applied to) and stretchable and tactile information decoding must be implemented in real time. The development of artificial tactile

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sensing is a big challenge as it involves numerous research areas. Application domains include humanoid and industrial robotics, prosthetics, biomedical instrumentation, health care, cyber physical systems, virtual reality, arts, to name but a few. Recent and relevant achievements in

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materials and transducers have not yet successfully boosted system developments due to the challenging gaps which still need to be filled at many levels, e.g. data decoding and processing, miniaturization, mechanical compliance, robustness, among others. Tactile sensing has developed rapidly

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Over the past three decades, but has yet to achieve high impact breakthroughs in application domains. In this Special Issue, we focus on both insights and advancements in tactile sensing with the goal of bridging different research areas, e.g., material science, electronics, robotics, neuroscience,

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additive and 3D
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in the field, including the latest on magnetic sensors, temperature sensors and microreaction chambers. The book outlines the industrial applications for smart sensors, covering direct interface circuits for sensors, capacitive sensors for displacement measurement in the sub-

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Monitoring and automation solutions will find this a comprehensive source of information. Contains new chapters that address key applications, such as magnetic sensors, microreaction chambers and temperature sensors Provides an in-depth information on a wide array of industrial

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fundamentals of sensors, interfacing, power supplies, configuration of sensor node, and GUI development are covered. The book will be useful for engineers and researchers in the field ,especially for higher undergraduate and postgraduate students as well as practitioners working on the development of

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Wireless Sensor
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Interfacing Techniques

The advent of
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Part 3 discusses power
outputs, serial
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interfacing, and the design of MCU-based systems. Each topic is illustrated by designs based on the 16F877. The Proteus design software by Labcenter Electronics is used throughout. The book is suited for more advanced readers with prior knowledge of the basics of microcontroller systems.

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