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Sensors Application Using PIC16F877A Microcontroller

Huthaifa Ahmad Al_Issa[1], Saed Thuneibat[1], Mesa Abdesalam[2]

[1]Department of Electrical and Electronics Engineering, Al-Balqa' Applied University, Irbid, Jordan
[2]Department of Electrical and Computer Engineering, University of Dayton, Dayton, Ohio, USA

Email address:
ahmad_issa@yahoo.com (H. A. Al_Issa)

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Abstract: In the 21st century, sensors have become common and part of everyday life. Such as touch-sensitive cell phones, computer monitors, elevator buttons, lamps that automatically dim or brighten, and even cars that park themselves. In addition, there are many applications of sensors that are hidden but control many facets of modern life such as in cars, airplanes, medical imaging, satellite communications and navigation. This research effort examines three sensor types, their data, and how to integrate it with a single microcontroller to accomplish simple tasks – dimming a light, sounding an alarm and showing a temperature rise. Three sensor types were used in this effort. First, an ultrasonic sensor was used to measure the distance from an object. A temperature sensor was used for monitoring temperature change from a human touch. Third, a Light Depending Resistor (LDR) sensor was used to detect different levels of light in a room. The goal of this research was to make a smart device that can be used to solve simple problems. Further applications could be applied to perform tasks such as controlling the temperature of a room or controlling the level of water in a meter. Also, robotics could be improved by providing information about distance to an object. Many applications can be enhanced based on this research.

Keywords: Sensors, Microcontroller, Ultrasonic Sensor, Temperature Sensor, Light Sensor, Robot, Distance Measurement

1. Introduction

In the modern world of the 21st century, sensors are so abundant and widespread that they are commonly taken for granted. Sensors and micro-controllers have been integrated for specific applications such as touch-sensitive cell phones, computer monitors, elevator buttons and lamps which dim or brighten by touching the base. There are also innumerable applications for sensors of which most people are never aware. Applications include cars, machines, aerospace, medicine, manufacturing and robotics [1].

Simply put, a sensor is a device for detecting and signaling a changing condition [2]. A sensor (also called detector) is a converter that measures a physical quantity and converts it into a signal which can be read by an observer or by an (today mostly electronic) instrument [3-6]. For example, a mercury-in-glass thermometer responds to the ambient temperature by expansion and contraction of the mercury liquid. This can be read on a calibrated glass tube. A thermocouple converts temperature to an output voltage which can be read by a voltmeter. For accuracy, most sensors are calibrated against known standards [6-8].

The sensitivity of a sensor indicates how much the sensor's output changes when the measured quantity changes. For instance, if the mercury in a thermometer moves 1 cm when the temperature changes by 1°C, the sensitivity is 1 cm/°C (it is basically the slope $\frac{\Delta y}{\Delta x}$ assuming a linear characteristic). Sensors that measure very small changes must have very high sensitivities [2, 4].

The sensors themselves may also have an impact on what they are measuring. For instance, a room temperature thermometer inserted into a hot cup of liquid will have a cooling effect on the liquid while the liquid heats the thermometer. For this reason, sensors should be designed to have as small an effect as possible on the environment which it is placed. One way to achieve this is to make the sensor small, the smaller the better. This miniaturization often improves the sensor response and may introduce other advantages as well. Technological progress allows more and more sensors to be manufactured on a microscopic scale as micro sensors using Micro Electro Mechanical Systems (MEMS) technology. In most cases, a micro sensor reaches a

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Engineering, Technology and Management Kali Charan Rath,Alvaro Rocha,Siba Sankar Mahapatra,Anoop Kumar Sood,Amaresh Kumar,2025-08-11 This book offers a comprehensive exploration of sustainable manufacturing by integrating advanced technologies with modern management principles to address contemporary production challenges Emphasizing productivity enhancement environmental consciousness and resilience it presents tactical strategies supported by experimental research statistical analysis case studies and real world applications The authors uniquely highlight innovative processing techniques sustainable materials and integrative management frameworks to provide practical insights for professionals researchers and decision makers in manufacturing and sustainable management Designed for a primary audience of engineers academics and industry practitioners the book also appeals to a secondary audience including sustainability enthusiasts policymakers entrepreneurs and organizations advocating eco friendly practices With its accessible language and data driven analysis this resource serves as a vital reference for those aiming to align manufacturing practices with the principles of a circular economy and promote long term industrial sustainability **PIC Basic Projects** Dogan Ibrahim,2011-02-24 Covering the PIC BASIC and PIC BASIC PRO compilers PIC Basic Projects provides an easy to use toolkit for developing applications with PIC BASIC Numerous simple projects give clear and concrete examples of how PIC BASIC can be used to develop electronics applications while larger and more advanced projects describe program operation in detail and give useful insights into developing more involved microcontroller applications Including new and dynamic models of the PIC microcontroller such as the PIC16F627 PIC16F628 PIC16F629 and PIC12F627 PIC Basic Projects is a thoroughly practical hands on introduction to PIC BASIC for the hobbyist student and electronics design engineer Packed with simple and advanced projects which show how to program a variety of interesting electronic applications using PIC BASIC Covers the new and powerful PIC16F627 16F628 PIC16F629 and the PIC12F627 models **Machine Learning and Deep Learning for Smart Agriculture and Applications** Hashmi, Mohamamd Farukh,Kesakr, Avinash G.,2023-08-29 Machine Learning and Deep Learning for Smart Agriculture and Applications delves into the captivating realm of artificial intelligence and its pivotal role in transforming the landscape of modern agriculture With a focus on precision agriculture digital farming and emerging concepts this book illuminates the significance of sustainable food production and resource management in the face of evolving digital hardware and software technologies Geospatial technology robotics the Internet of Things IoT and data analytics converge with machine learning and big data to unlock new possibilities in agricultural management This book explores the synergy between these disciplines offering cutting edge insights into data intensive processes within operational agricultural environments From automated irrigation systems and agricultural drones for field analysis to crop monitoring and precision agriculture the applications of machine learning are far reaching Animal identification and health monitoring also benefit from these advanced techniques With practical case studies on vegetable and fruit leaf disease detection drone

based agriculture and the impact of pesticides on plants this book provides a comprehensive understanding of the applications of machine learning and deep learning in smart agriculture It also examines various modeling techniques employed in this field and showcases how artificial intelligence can revolutionize plant disease detection This book serves as a comprehensive guide for researchers practitioners and students seeking to harness the power of AI in transforming the agricultural landscape *Recent Innovations in Artificial Intelligence and Smart Applications* Mostafa Al-Emran,Khaled Shaalan,2022-10-01 This book tackles the recent research trends on the role of AI in advancing automotive manufacturing augmented reality sustainable development in smart cities telemedicine and robotics It sheds light on the recent AI innovations in classical machine learning deep learning Internet of Things IoT Blockchain knowledge representation knowledge management big data and natural language processing NLP The edited book covers empirical and reviews studies that primarily concentrate on the aforementioned issues which would assist scholars in pursuing future research in the domain and identifying the possible future developments of AI applications **Sensor Applications, Experimentation, and Logistics** Nikos Komninos,2010-02-16 Wireless sensor networks WSNs are envisioned to enable a variety of applications including environmental monitoring building and plant automation homeland se rity and healthcare It has been argued that one of the key characteristics of sensor networks is that they are tightly coupled with the applications running on top of them Although WSNs have been an active area of research for over a decade real world sensor network deployments have not yet found their way to widespread adoption The experience gained and lessons learned during the initial attempts to deploy WSNs and implement various sensor network applications are very valuable for the vancement of this technology Recognizing the need of a conference dedicated to practical aspects of WSN p taining to their employment in a plethora of applications ICST launched SENSAPPEAL as a yearly event whose first edition took place in September 2009 at the Athens Information Technology campus in the outskirts of Athens Greece **Computational Intelligence and Image Processing in Agriculture** Jay Kumar Pandey,Mritunjay Rai,Tanmay Sarkar,2025-12-11 Revolutionizing Agricultural Quality Control with AI Image Processing and Computational Intelligence Techniques As the global demand for high quality sustainable agricultural products increases advanced technology becomes critical in meeting these challenges Computational Intelligence and Image Processing in Agriculture explores how innovative technologies are transforming agricultural quality evaluation Combining foundational concepts with practical applications this comprehensive text delves into innovative techniques to improve accuracy efficiency and sustainability in quality control Addressing key challenges faced by researchers practitioners and industry professionals contributions from leading experts in AI agriculture and computational intelligence provide a deep understanding of technologies such as deep learning computer vision and AI driven robotics Real world examples step by step tutorials and code snippets make the concepts accessible and actionable while coverage of emerging trends and future directions highlights the evolving landscape of agricultural technology Offering interdisciplinary

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Advanced Manufacturing Technology, ICMSE 2012 Wen Zhe Chen,Xi Peng Xu,Pin Qiang Dai,Yong Lu Chen,Zheng Yi Jiang,2012-02-27 Selected peer reviewed papers from the 3rd international Conference on Manufacturing Science and Engineering ICMSE 2012 March 27 29 2012 Xiamen China *PIC Microcontroller Projects Handson* Anbazhagan K,2020-06-03 This book is specially described about best IOT Projects with the simple explanation From this book you can get lots of information about the IOT and How the Projects are developed You can get an information about the free cloud services and effective way to apply in your projects you can get how to program and create a proper automation in IOT products Which is helpful for the starting stage people but they must know about internet of things You will know how to process the microchip controller and new software for working You can gain lots of project knowlegde from this book and i am sure if you done this book you have a IOT Knowlegde From this you can get lot of new ideas why are u waiting for and get it my friend we really proud to present this book for you Thank u **Programming and Customizing the PIC Microcontroller** Myke Predko,2007-05-22 MASTER PIC MICROCONTROLLER TECHNOLOGY AND ADD POWER TO YOUR

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Design with PIC Microcontrollers John B. Peatman,1998 Peatman uses detailed block diagrams to illustrate all control bits status bits and registers associated with assorted functions He also uses examples throughout to illustrate points and to show readers how issues can be handled **International Conference on Multimodal Interfaces** ,2003 **Fifth Symposium Optics in Industry** ,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Proceedings of the ACM Symposium on User Interface Software and Technology** ,2007 **Nondestructive Detection and Measurement for Homeland Security II** S. R. Doctor,2004 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature *Programmable Devices and Systems (PDS 2000)* Vilém Srovnal,K. Vlček,2000 Paperback The IFAC Workshop on Programmable Devices and Systems PDS started in the middle of the nineties in Poland The organisers believe that in the area of programmable devices and systems there are some problems specific to them which sufficiently justifies the decision to organise the PDS 2000 IFAC Workshop The Workshop s main objective is to provide a forum to present the latest research results and experiences in the area of the design and application of programmable devices and systems and a forum to discuss the current status and future trends of this particular branch of the

programmable devices in measurement control and computer science *Mechatronics* Sabri Cetinkunt,2007 Mechatronics is the design and development of computer controlled mechanical systems such as the fuel efficient engine of today s family car This comprehensive book brings together the knowledge and techniques of the major technical fields and explores the theory behind a wide range of basic devices It then brings all this knowledge together in various motion control lab experiments which provide readers with practical experience in designing circuits and writing software Midwest Electronics World ,2008 Newark Electronics ,2009

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