MSP430-based Robot Applications: A Guide to Developing Embedded Systems

Dan Harres

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This book provides a careful explanation of the basic areas of electronics and computer architecture, along with lots of examples, to demonstrate the interface, sensor design, programming and microcontroller peripheral setup necessary for embedded systems development. With no need for mechanical knowledge of robots, the book starts by demonstrating how to modify a simple radio-controlled car to create a basic robot. The fundamental electronics of the MSP430 are described, along with programming details in both C and assembly language, and full explanations of ports, timing, and data acquisition. Further chapters cover inexpensive ways to perform circuit simulation and prototyping.

Key features include:

- Thorough treatment of the MSP430's architecture and functionality along with detailed application-specific guidance
- Programming and the use of sensor technology to build an embedded system
- A learn-by-doing experience

With this book you will learn:

- The basic theory for electronics design

    - Analog circuits

    - Digital logic

    - Computer arithmetic

    - Microcontroller programming

- How to design and build a working robot
- Assembly language and C programming
- How to develop your own high-performance embedded systems application using an on-going robotics application

Teaches how to develop your own high-performance embedded systems application using an on-going robotics application

• Thorough treatment of the MSP430's architecture and functionality along with detailed application-specific guidance.

• Focuses on electronics, programming and the use of sensor technology to build an embedded system

• Covers assembly language and C programming

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From reader reviews:

David Guyton:

Playing with family in a park, coming to see the water world or hanging out with friends is thing that usually you may have done when you have spare time, then why you don't try thing that really opposite from that. Just one activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you are ride on and with addition of information. Even you love MSP430-based Robot Applications: A Guide to Developing Embedded Systems, you can enjoy both. It is fine combination right, you still wish to miss it? What kind of hangout type is it? Oh seriously its mind hangout guys. What? Still don't have it, oh come on its called reading friends.

Martina Barton:

In this time globalization it is important to someone to get information. The information will make a professional understand the condition of the world. The fitness of the world makes the information much easier to share. You can find a lot of personal references to get information example: internet, newspaper, book, and soon. You will observe that now, a lot of publisher in which print many kinds of book. The actual book that recommended to you is MSP430-based Robot Applications: A Guide to Developing Embedded Systems this book consist a lot of the information from the condition of this world now. That book was represented how do the world has grown up. The vocabulary styles that writer use to explain it is easy to understand. Typically the writer made some study when he makes this book. That is why this book suitable all of you.

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