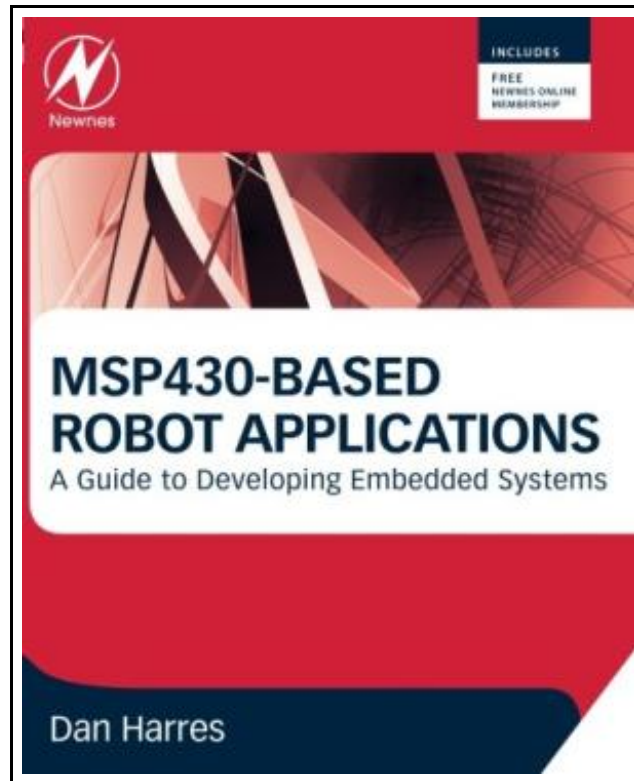# MSP430-Based Robot Applications: A Guide to Developing Embedded Systems (Paperback)

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Reviews

This publication is great. It is full of wisdom and knowledge You will not really feel monotony at at any time of the time (that's what catalogs are for relating to when you ask me).
(Dr. Everett Dicki DDS)

MSP430-BASED ROBOT APPLICATIONS: A GUIDE TO DEVELOPING EMBEDDED SYSTEMS (PAPERBACK)

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ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2013. Paperback. Book Condition: New. 231 x 188 mm. Language: English . Brand New Book. 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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