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MSP430 Based Robot Applications A

It focuses on how to use a low-cost (\$ 10), but extremely popular Microcontroller platform, the Texas Instruments MSP430 Launchpad, for use in a low cost robot. But even though it uses a low cost R/C car robot as the robot platform, the robot project includes a number of very useful features, including ultra-sound sensors, and light sensors.

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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.

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"The Texas Instruments MSP430 is a small, low power consumption microcontroller with a wide range of uses in embedded devices. In this book, Harres provides a guide to using them in robotics projects. The book emphasizes a hands-on approach where the reader will learn about robotics by constructing actual robots.

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The MSP430 microcontroller family offers ultra-low power mixed signal, 16-bit architecture that is perfect for wireless low-power industrial and portable medical applications. This book begins with an overview of embedded systems and microcontrollers followed by a comprehensive in-depth look at the MSP430.

Embedded Systems Books

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