



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

By Dan Harres



## MSP430-based Robot Applications: A Guide to Developing Embedded Systems By Dan Harres

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.

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## About the Author

Dan Harres has 36 years of engineering experience with McDonnell Douglas Corp., Boeing Company, and ITT Electro-Optics Corp., and is the inventor of 29 US patents and patents pending. He has authored around 30 technical magazine articles and conference papers, and chaired the IEEE Avionics, Fiber Optics, and Photonics Conference in 2009-10. His principal areas of work are analog circuit design, microcontroller applications, and fiber optics system design. **Users Review****From reader reviews:**

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