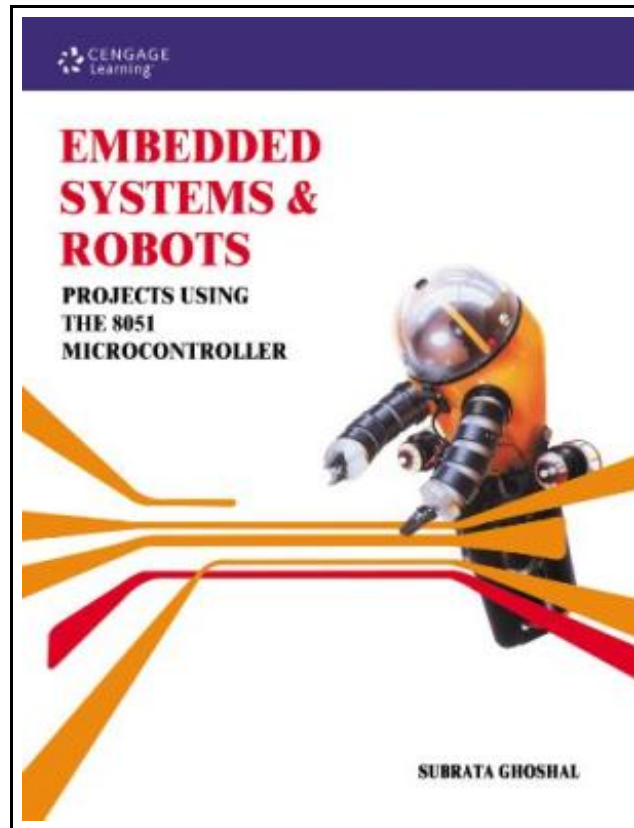# Embedded Systems and Robots: Projects Using the 8051 Microcontroller

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Reviews

Basically no words to describe. It is filled with knowledge and wisdom I am just pleased to let you know that this is actually the greatest publication i have read within my individual lifestyle and may be he best publication for at any time.
(Prof. Ron Gaylord II)

EMBEDDED SYSTEMS AND ROBOTS: PROJECTS USING THE 8051 MICROCONTROLLER

Cengage Learning India, 2009. Softcover. Book Condition: New. First edition. Embedded Systems & Robots: Projects Using The 8051 Microcontroller is meant to serve as a reference book on real-time embedded system design and the applications of the 8051 microcontroller for undergraduate as well as postgraduate students of computer science, information technology, electronics, instrumentation, mechatronics, and other related disciplines. The book will also prove useful to general readers who wish to understand and fabricate simple working models of robots. This book adopts a do-it-yourself approach, starting with very simple projects and slowly leading to more complex items. It includes discussions on real-time embedded systems and provides step-by-step instructions for design and construction of different types of simple robots. The book highlights the need for accurate scheduling in real-time systems and indicates the related solution-techniques through assembly language programming. It contains discussions on importance of data structures in real-time scheduling (Chapter 7) and interfacing issues of sensors such as SONAR, infrared, LDR, and tactile sensors. The book provides complete fabrication blue-prints of several robot examples, including line-follower robot, maze-solving robot, obstruction-detecting robot, shadow-activated robot, learning robot, and humanoid robot.The book uses simple and lucid language for easy understanding of the concepts involved. A large number of illustrations (in colour where required) have been incorporated to enhance understanding of relevant technical details. All circuits shown in the book have been tested and only components, which are available in the Indian market have been used, thus making the examples and projects suitable for Indian students. Review exercises, including objective-type questions have been provided at the end of every chapter to test the students` understanding of the topics discussed. * Delineates 11 do-it-yourself projects using the 8051 microcontroller with complete hardware circuit details and software listings. * Follows a step-by-step approach for understanding the design...

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