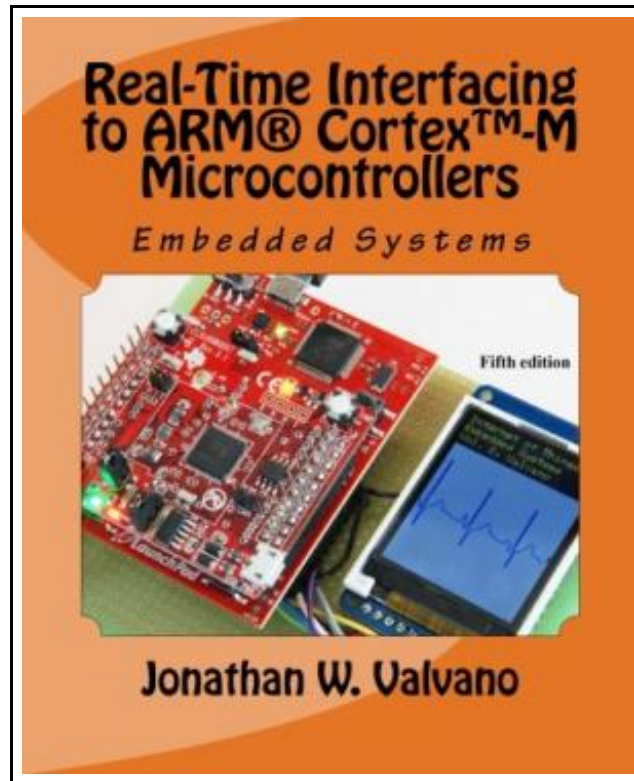# Embedded Systems: Real-Time Interfacing to Arm(r) Cortex -M Microcontrollers

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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)

EMBEDDED SYSTEMS: REAL-TIME INTERFACING TO ARM(R) CORTEX -M MICROCONTROLLERS

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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. This book, now in its second edition, is the second in a series of three books that teach the fundamentals of embedded systems as applied to ARM Cortex-M microcontrollers. The three books are primarily written for undergraduate electrical and computer engineering students. They could also be used for professionals learning the ARM platform. The first book Embedded Systems: Introduction to ARM Cortex-M Microcontrollers is an introduction to computers and interfacing focusing on assembly language and C programming. This second book focuses on interfacing and the design of embedded systems. The third book Embedded Systems: Real-Time Operating Systems for ARM Cortex-M Microcontrollers is an advanced book focusing on operating systems, high-speed interfacing, control systems, and robotics. An embedded system is a system that performs a specific task and has a computer embedded inside. Topics include microcontrollers, design, verification, hardwaresoftware synchronization, interfacing devices to the computer, timing diagrams, real-time systems, data collection and processing, motor control, analog filters, digital filters, and real-time signal processing. In general, the area of embedded systems is an important and growing discipline within electrical and computer engineering. The educational market of embedded system is dominated by simple microcontrollers like the PIC, 9S12, and 8051. This is because of their market share, low cost, and historical dominance. However, as problems become more complex, so must the systems that solve them. A number of embedded system paradigms must shift in order to accommodate this growth in complexity. First, the number of calculations per second will increase from about 1 millionsec to 1 billionsec. Similarly, the number of lines of software code will also increase from 1000s to 10 to 100 million. Thirdly, systems will involve multiple microcontrollers supporting many simultaneous operations. Lastly, the need for system verification...

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