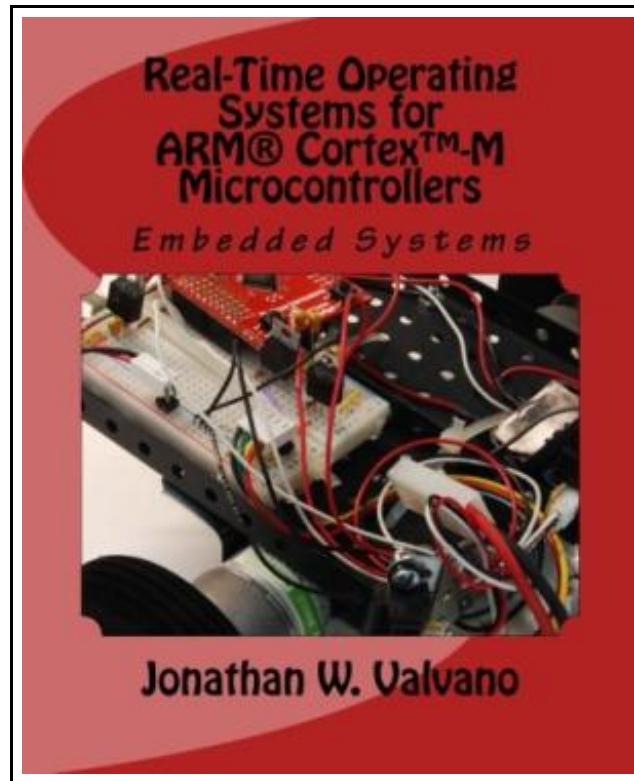# Embedded Systems: Real-Time Operating Systems for Arm Cortex M Microcontrollers

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EMBEDDED SYSTEMS: REAL-TIME OPERATING SYSTEMS FOR ARM CORTEX M MICROCONTROLLERS

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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 414 pages. Dimensions: 9.2in. x 7.5in. x 0.9in.Embedded systems are a ubiquitous component of our everyday lives. We interact with hundreds of tiny computers every day that are embedded into our houses, our cars, our toys, and our work. As our world has become more complex, so have the capabilities of the microcontrollers embedded into our devices. The ARM Cortex-M family represents the new class of microcontroller much more powerful than the devices available ten years ago. The purpose of this book is to present the design methodology to train young engineers to understand the basic building blocks that comprise devices like a cell phone, an MP3 player, a pacemaker, antilock brakes, and an engine controller. This book, now in its second edition (Jan 2014, 2nd printing), is the third in a series of three books that teach the fundamentals of embedded systems as applied to ARM Cortex-M microcontrollers. This third volume is primarily written for senior undergraduate or first-year graduate electrical and computer engineering students. It could also be used for professionals wishing to design or deploy a real-time operating system onto an ARM platform. The first book Embedded Systems: Introduction to the ARM Cortex-M Microcontroller is an introduction to computers and interfacing focusing on assembly language and C programming. The second book Embedded Systems: Real-Time Interfacing to ARM Cortex-M Microcontroller focuses on interfacing and the design of embedded systems. This third book is an advanced book focusing on operating systems, high-speed interfacing, control systems, and robotics. Rather than buying and deploying an existing OS, the focus is on fundamental principles, so readers can write their-own OS. An embedded system is a system that performs a specific task and has a computer embedded inside....

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