



What Every Engineer Should Know About Developing Real-time Embedded Products

By Kim R. Fowler

Taylor & Francis Inc. Paperback. Book Condition: new. BRAND NEW, What Every Engineer Should Know About Developing Real-time Embedded Products, Kim R. Fowler, You can find them in your wristwatch or MP3 player; they perform specific functions in washing machines, traffic lights, and even pacemakers. Embedded systems are pervasive, ubiquitous, and widespread throughout our daily lives. Developing these real-time embedded products requires an understanding of the interactions between different disciplines, such as circuit design, power, cooling, packaging, software, and human interface. This volume provides the knowledge and insight engineers need to make critical design decisions and offers a clear guide for preparing and developing projects in different markets. The book begins by laying the basic groundwork for effective processes, covering smaller, self-contained devices and subsystems, ranging from handheld devices to appliances. Highly detailed case studies, which include designing instruments for space flight, implanted medical devices, and military support equipment, illustrate industry best practices and managerial issues. Each case study is detailed in terms of concept, market, standards, integration, manufacturing, and phases. With schedule and estimation templates, this highly functional text presents numerous examples of design tradeoffs critical to successful project development. Offering even coverage and clarification of the entire development...



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