



Developing and Managing Embedded Systems and Products: Methods, Techniques, Tools, Processes, and Teamwork

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This Expert Guide gives you the knowledge, methods and techniques to develop and manage embedded systems successfully. It shows that teamwork, development procedures, and program management require unique and wide ranging skills to develop a system, skills that most people can attain with persistence and effort.

With this book you will:

- Understand the various business aspects of a project from budgets and schedules through contracts and market studies
- Understand the place and timing for simulations, bench tests, and prototypes, and understand the differences between various formal methods such as FMECA, FTA, ETA, reliability, hazard analysis, and risk analysis
- Learn general design concerns such as the user interface, interfaces and partitioning, DFM, DFA, DFT, tradeoffs such as hardware versus software, buy versus build, processor choices, and algorithm choices, acquisition concerns, and interactions and comparisons between electronics, functions, software, mechanics, materials, security, maintenance, and support
- Covers the life cycle for developing an embedded system: program management, procedures for design and development, manufacturing, maintenance, logistics, and legal issues
- Includes proven and practical techniques and advice on tackling critical issues reflecting the authors' expertise developed from years of experience



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Editorial Review

From the Back Cover

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Key Features:

- Case studies show the implementation of key ideas, the rationale for choices made, and design guidelines and trade-offs
- Covers the life cycle for developing an embedded system: program management, procedures for design and development, manufacturing, maintenance, logistics, and legal issues
- Includes proven and practical techniques and advice on tackling critical issues reflecting the authors' expertise developed from years of experience

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Kim Fowler has spent over 30 years in the design, development, and project management of medical, military, and satellite equipment. His interest is the rigorous development of diverse, mission-critical, embedded systems. Kim co-founded Stimsoft, a medical products company, in 1998 and sold it in 2003. He has also worked for JHU/APL designing embedded systems, for a company now part of Curtiss-Wright Embedded Computing that built digital signal processing boards, and consulted for both commercial companies and government agencies. Kim is a Fellow of the IEEE and lectures internationally on systems engineering and developing real-time embedded products. He has been President of the IEEE Instrumentation & Measurement society and an adjunct professor for the Johns Hopkins University Engineering Professional Program. He has published widely and has written three textbooks - this book is his fourth. He has 18 patents - granted, pending, or disclosed. Kim currently is a graduate student in Electrical and Computer Engineering at Kansas State University to finally get his PhD to teach and research. Users ReviewFrom reader reviews:

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