

Mission-Critical and Safety-Critical Systems Handbook: Design and Development for Embedded Applications

By Kim Fowler

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This handbook provides a consolidated, comprehensive information resource for engineers working with mission and safety critical systems. Principles, regulations, and processes common to all critical design projects are introduced in the opening chapters. Expert contributors then offer development models, process templates, and documentation guidelines from their own core critical applications fields: medical, aerospace, and military.

Readers will gain in-depth knowledge of how to avoid common pitfalls and meet even the strictest certification standards. Particular emphasis is placed on best practices, design tradeoffs, and testing procedures.

*Comprehensive coverage of all key concerns for designers of critical systems including standards compliance, verification and validation, and design tradeoffs
*Real-world case studies contained within these pages provide insight from experience

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Editorial Review

About the Author
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.

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