



Managing the Development of Software-Intensive Systems

James McDonald

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An authoritative primer on managing software-based development projects and complex software/hardware systems

Managing the Development of Software-Intensive Systems discusses the application of project management and general management techniques to large software development projects and complex software/hardware systems. Drawing upon the author's experience in developing a project management workshop for AT&T employees, as well as in teaching software engineering courses at Monmouth University and workshops for a variety of other audiences, this practical guide allows readers to reliably develop large software applications and systems that require the simultaneous development of electronic hardware and the software that controls the hardware.

- Integrates the project management processes of planning, organizing, monitoring, and control with the underlying technical processes used for product development
- Teaches how to plan and manage verification and validation for large software projects or complex software/hardware systems
- Explains what additional management activities must take place in organizations with a multi-project environment
- Discusses how inspection results and testing metrics can be used to monitor project status
- Describes techniques to help manage inherent risks in software-based product development

Each chapter is accompanied by a case study based on an actual situation with which the author is familiar; this gives the reader experience in doing the management work. The author teaches readers how to use their own experience to improve the way they manage projects and provides a method for reviewing successes and failures to help increase their capabilities in the future.

Managing the Development of Software-Intensive Systems serves as both an introduction to project management for software and hardware developers and as an advanced material resource for experienced managers. The contents will benefit managers of software-based development projects and organizations, as well as organizations that outsource development work. This book can also be used as a textbook in undergraduate or graduate courses in computer engineering, computer science, software engineering, information technology, commerce, and administration with an information systems orientation.

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