Project Management of Complex and Embedded Systems: Ensuring Product Integrity and Program Quality

Kim H. Pries, Jon M. Quigley

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There are many books on project management and many on embedded systems, but few address the project management of embedded products from concept to production. **Project Management of Complex and Embedded Systems: Ensuring Product Integrity and Program Quality** uses proven Project Management methods and elements of IEEE embedded software development techniques, to explain how to deliver a reliable complex system to market.

This volume begins with a general discussion of project management, followed by an examination of the various tools used before a project is underway. The book then delves into the specific project stages: concept, product development, process development, validation of the product and process, and release to production. Finally, post-project stages are explored, including failure reporting, analysis, corrective actions, and product support.

The book draws heavily on information from Department of Defense sources as well as systems developed by the Automotive Industry Action Group, General Motors, Chrysler, and Ford to standardize the approach to designing and developing new products. These automotive development and production ideas have universal value, particularly the concept of process and design controls. The authors use these systems to explain project management techniques that can assist developers of any embedded system. The methods explored can be adapted toward mechanical development projects as well.

The text includes numerous war stories offering concrete solutions to problems that might occur in production. Tables and illustrative figures are provided to further clarify the material. Organized sequentially to follow the normal life cycle of a project, this book helps project managers identify challenges before they become problems and resolve those issues that cannot be avoided.

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Spent a free time to be fun activity to perform! A lot of people spent their leisure time with their family, or all their friends. Usually they accomplishing activity like watching television, about to beach, or picnic inside park. They actually doing same thing every week. Do you feel it? Do you need to something different to fill your personal free time/ holiday? Might be reading a book is usually option to fill your totally free time/ holiday. The first thing that you'll ask may be what kinds of book that you should read. If you want to consider look for book, may be the guide untitled Project Management of Complex and Embedded Systems: Ensuring Product Integrity and Program Quality can be excellent book to read. May be it can be best activity to you.

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