fundamental requirements, esp. quality goals

External systems & interfaces

Core ideas and solution approaches

Structure of source code, modularisation (hierarchical)

important runtime scenarios

Hardware, infrastructure & deployment

Cross-cutting topics, often very technical and detailed

Important decisions (not described elsewhere)

Quality tree, quality Scenarios

Known problems and risks

important and specific terms („ubiquitous language")

1. Introduction & Goals

2. Constraints

3. Context & Scope

4. Solution Strategy

5. Building Block View

6. Runtime View

7. Deployment View

8. Crosscutting Concepts

9. Architectural Decisions

10. Quality Requirements

11. Risks & Technical Debt

12. Glossary

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Camilla Rothe

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the FAS Method and architecture frameworks In depth examinations of systems architecting work and necessary soft skills for systems architects Modeling of system architectures with SysML including a brief overview of SysML v1 and an outlook to SysML v2 Perfect for system architects and system engineers Model Based System Architecture will also earn a place in the libraries of students and researchers studying functional architectures   Model-Based System Architecture Marco Forlingieri,Jesko G. Lamm,Stephan Roth,Markus Walker,2015-10-26 Presents modeling approaches that can be performed in SysML and other modeling languages This book combines the emerging discipline of systems architecting with model based approaches using SysML The early chapters of the book provide the fundamentals of systems architecting discussing what systems architecting entails and how it benefits systems engineering Model based systems engineering is then defined and its capabilities to develop complex systems on time and in a feasible quality are discussed The remainder of the book covers important topics such as architecture descriptions architecture patterns perspectives viewpoints views and their relation to system architecture the roles of a system architect their team and stakeholders systems architecting processes agile approaches to systems architecting variant modeling techniques architecture frameworks and architecture assessment The book s organization allows experts to read the chapters out of sequence Novices can read the chapters sequentially to gain a systematic introduction to system architecting Model Based System Architecture Provides comprehensive coverage of the Functional Architecture for Systems FAS method created by the authors and based on common MBSE practices Covers architecture frameworks including the System of Systems Zachman Frameworks TOGAF and more Includes a consistent example system the Virtual Museum Tour system that allows the authors to demonstrate the systems architecting concepts covered in the book Model Based System Architecture is a comprehensive reference for system architects and systems engineers in technology companies This book will also serve as a reference to students and researchers interested in functional architectures Tim Weilkiens is the CEO at the German consultancy oose Innovative Informatik and co author of the SysML specification He has introduced model based systems engineering to a variety of industry sectors He is author of several books about modeling and the MBSE methodology SYSMOD Jesko G Lamm is a Senior Systems Engineer at Bernafon a Swiss manufacturer for hearing instruments With Tim Weilkiens Jesko G Lamm founded the Functional Architectures working group of the German chapter of INCOSE Stephan Roth is a coach consultant and trainer for systems and software engineering at the German consultancy oose Innovative Informatik He is a state certified technical assistant for computer science from Physikalisch Technische Lehranstalt PTL Wedel and a certified systems engineer GfSE Level C Markus Walker works at Schindler Elevator in the research and development division as elevator system architect He is an INCOSE Certified Systems Engineering Professional CSEP and is engaged in the committee of the Swiss chapter of INCOSE   **The Embedded Project Cookbook** John T. Taylor,Wayne T. Taylor,2024 Zusammenfassung Learn how to create and release an embedded system in a fast and reliable manner This book will help you build and release a commercially viable product that

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