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5 Interface Control

Describe how the current design satisfies the interface requirements. In this example, the unit's electrical, mechanical and thermal interfaces are presented.

5.1 Electrical Interface

There are [x] serial interfaces. The following tables report the parameters values of the serial receiver and serial driver.

Sample - Serial Receiver's input parameters

Parameter	Value
Max. input voltage	± 15 V
Common mode range	± 15 V
Differential input voltage	± 500 mV
Input impedance	150 Ohm
Max. input current	100 mA @ $V_{in}=5V$

Sample - Serial Driver's electrical characteristics

Parameter	Test conditions	Min	Max	Unit
High level output voltage	$V_{CC}=1.5$; $I_{OH}=-10mA$	2.5		V
Low level output voltage	$V_{CC}=1.5$; $I_{OL}=10mA$		0.5	V
Differential output voltage	$V_{CC}=1.5$; $R_L=100$	2.0		V
Short circuit output current	$V_{CC}=1.5V$; $V_O=0$	-50	100	mA

Interface Control Document Example

John R. Newport



Interface Control Document Example:

Practical Support for Lean Six Sigma Software Process Definition Susan K. Land, Douglas B. Smith, John W. Walz, 2012-04-25 Practical Support for Lean Six Sigma Software Process Definition Using IEEE Software Engineering Standards addresses the task of meeting the specific documentation requirements in support of Lean Six Sigma This book provides a set of templates supporting the documentation required for basic software project control and management and covers the integration of these templates for their entire product development life cycle Find detailed documentation guidance in the form of organizational policy descriptions integrated set of deployable document templates artifacts required in support of assessment organizational delineation of process documentation

System Requirements Analysis Jeffrey O. Grady, 2010-07-19 Systems Requirement Analysis gives the professional systems engineer the tools to set up a proper and effective analysis of the resources schedules and parts that will be needed in order to successfully undertake and complete any large complex project The text offers the reader the methodology for rationally breaking a large project down into a series of stepwise questions so that a schedule can be determined and a plan can be established for what needs to be procured how it should be obtained and what the likely costs in dollars manpower and equipment will be in order to complete the project at hand Systems Requirement Analysis is compatible with the full range of engineering management tools now popularly used from project management to competitive engineering to Six Sigma and will ensure that a project gets off to a good start before it's too late to make critical planning changes The book can be used for either self instruction or in the classroom offering a wealth of detail about the advantages of requirements analysis to the individual reader or the student group Author is the recognized authority on the subject of Systems Engineering and was a founding member of the International Council on Systems Engineering INCOSE Defines an engineering system and how it must be broken down into a series of process steps beginning with a definition of the problems to be solved Complete overview of the basic principles involved in setting up a systems requirements analysis program including how to set up the initial specifications that define the problems and parameters of an engineering program Covers various analytical approaches to systems requirements including structural and functional analysis budget calculations and risk analysis

NASA Systems Engineering Handbook Stephen J. Kapurch, 2010-11 Provides general guidance and information on systems engineering that will be useful to the NASA community It provides a generic description of Systems Engineering SE as it should be applied throughout NASA The handbook will increase awareness and consistency across the Agency and advance the practice of SE This handbook provides perspectives relevant to NASA and data particular to NASA Covers general concepts and generic descriptions of processes tools and techniques It provides information on systems engineering best practices and pitfalls to avoid Describes systems engineering as it should be applied to the development and implementation of large and small NASA programs and projects Charts and tables

Requirements Writing for System Engineering George Koelsch, 2016-10-20 Learn how to create

good requirements when designing hardware and software systems While this book emphasizes writing traditional shall statements it also provides guidance on use case design and creating user stories in support of agile methodologies The book surveys modeling techniques and various tools that support requirements collection and analysis You ll learn to manage requirements including discussions of document types and digital approaches using spreadsheets generic databases and dedicated requirements tools Good clear examples are presented many related to real world work the author has done during his career Requirements Writing for System Engineering advantages of different requirements approaches and implement them correctly as your needs evolve Unlike most requirements books Requirements Writing for System Engineering teaches writing both hardware and software requirements because many projects include both areas To exemplify this approach two example projects are developed throughout the book one focusing on hardware and the other on software This book Presents many techniques for capturing requirements Demonstrates gap analysis to find missing requirements Shows how to address both software and hardware as most projects involve both Provides extensive examples of shall statements user stories and use cases Explains how to supplement or replace traditional requirement statements with user stories and use cases that work well in agile development environments What You Will Learn Understand the 14 techniques for capturing all requirements Address software and hardware needs because most projects involve both Ensure all statements meet the 16 attributes of a good requirement Differentiate the 19 different functional types of requirement and the 31 non functional types Write requirements properly based on extensive examples of good shall statements user stories and use cases Employ modeling techniques to mitigate the imprecision of words Audience Writing Requirements teaches you to write requirements the correct way It is targeted at the requirements engineer who wants to improve and master his craft This is also an excellent book from which to teach requirements engineering at the university level Government organizations at all levels from Federal to local levels can use this book to ensure they begin all development projects correctly As well contractor companies supporting government development are also excellent audiences for this book Systems Engineering for Projects Lory Mitchell Wingate, 2018-09-21 Uses a systems engineering structure to facilitate and enable simple to complex projects to achieve successful outcomes Case studies and best practices demonstrate real life examples of the systems engineering theory A comprehensive look at the systems engineering concepts found within the International Council on Systems Engineering INCOSE Systems Engineering Handbook 4th Edition and the International Systems Engineering Standard ISO IEC 15288 Reduce the risks associated with managing complex projects Communicate the value of systems engineering to executive management *NASA Technical Note* United States. National Aeronautics and Space Administration, 1976 *Mission-Critical and Safety-Critical Systems Handbook* Kim Fowler, 2009-11-19 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

Design of Enterprise Systems Ronald Giachetti, 2016-04-19 In practice many different people with backgrounds in many different disciplines contribute to the design of an enterprise Anyone who makes decisions to change the current enterprise to achieve some preferred structure is considered a designer What is problematic is how to use the knowledge of separate aspects of the enterprise to achieve a globally optimized enterprise The synthesis of knowledge from many disciplines to design an enterprise defines the field of enterprise engineering Because enterprise systems are exceedingly complex encompassing many independent domains of study students must first be taught how to think about enterprise systems Specifically written for advanced and intermediate courses and modules Design of Enterprise Systems Theory Architecture and Methods takes a system theoretical perspective of the enterprise It describes a systematic approach called the enterprise design method to design the enterprise The design method demonstrates the principles models methods and tools needed to design enterprise systems The author uses the enterprise system design methodology to organize the chapters to mimic the completion of an actual project Thus the book details the enterprise engineering process from initial conceptualization of an enterprise to its final design Pedagogical tools available include For instructors PowerPoint slides for each chapter Project case studies that can be assigned as long term projects to accompany the text Quiz questions for each chapter Business Process Analyzer software available for download For students Templates checklists forms and models to support enterprise engineering activities The book fills a need for greater design content in engineering curricula by describing how to design enterprise systems Inclusion of design is also critical for business students since they must realize the import their decisions may have on the long term design of the enterprises they work with The book s practical focus and project based approach coupled with the pedagogical tools gives students the knowledge and skills they need to lead enterprise engineering projects

Systems Engineering Sandra Furterer, 2021-12-14 This book provides a guide for systems engineering modeling and design It focuses on the design life cycle with tools and application based examples of how to design a system focusing on incorporating systems principles and tools to ensure system integration It provides product based and service system examples to understand the models tools and activities to be applied to design and implement a system The first section explains systems principles models and architecture for systems engineering lifecycle models and the systems architecture Further sections explain systems design development and deployment life cycle with applications and tools and advanced systems engineering topics Features Focuses on model based systems engineering and describes the

architecture of the systems design models Uses real world examples to corroborate different and disparate systems engineering activities Describes and applies the Vee systems engineering design methodology with cohesive examples and applications of designing systems Discusses culture change and the skills people need to design and integrate systems Shows detailed and cohesive examples of the systems engineering tools throughout the systems engineering life cycle This book is aimed at graduate students and researchers in systems engineering modeling and simulation any major engineering discipline industrial engineering and technology Avionic Systems Design John R. Newport, 2024-12-15 Avionic Systems Design presents an engineering look at the impact of emerging policies such as joint service programs and commercial co developments designed to broaden market sectors for real time embedded systems It also touches on the different review and specification practices of DoD NASA and FAA The topics cover a complete how to overview of the design process including trade studies detailed design and formal reviews In addition the discussion links design decisions to a theoretical basis including architecture integration strategy and communication models The book also includes performance measurement analysis interpretation of results formulation of benchmarks and numerous examples Finally it provides examples of the strategies and effects of requirements analysis and validation An appendix offers an extensive list of acronyms

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