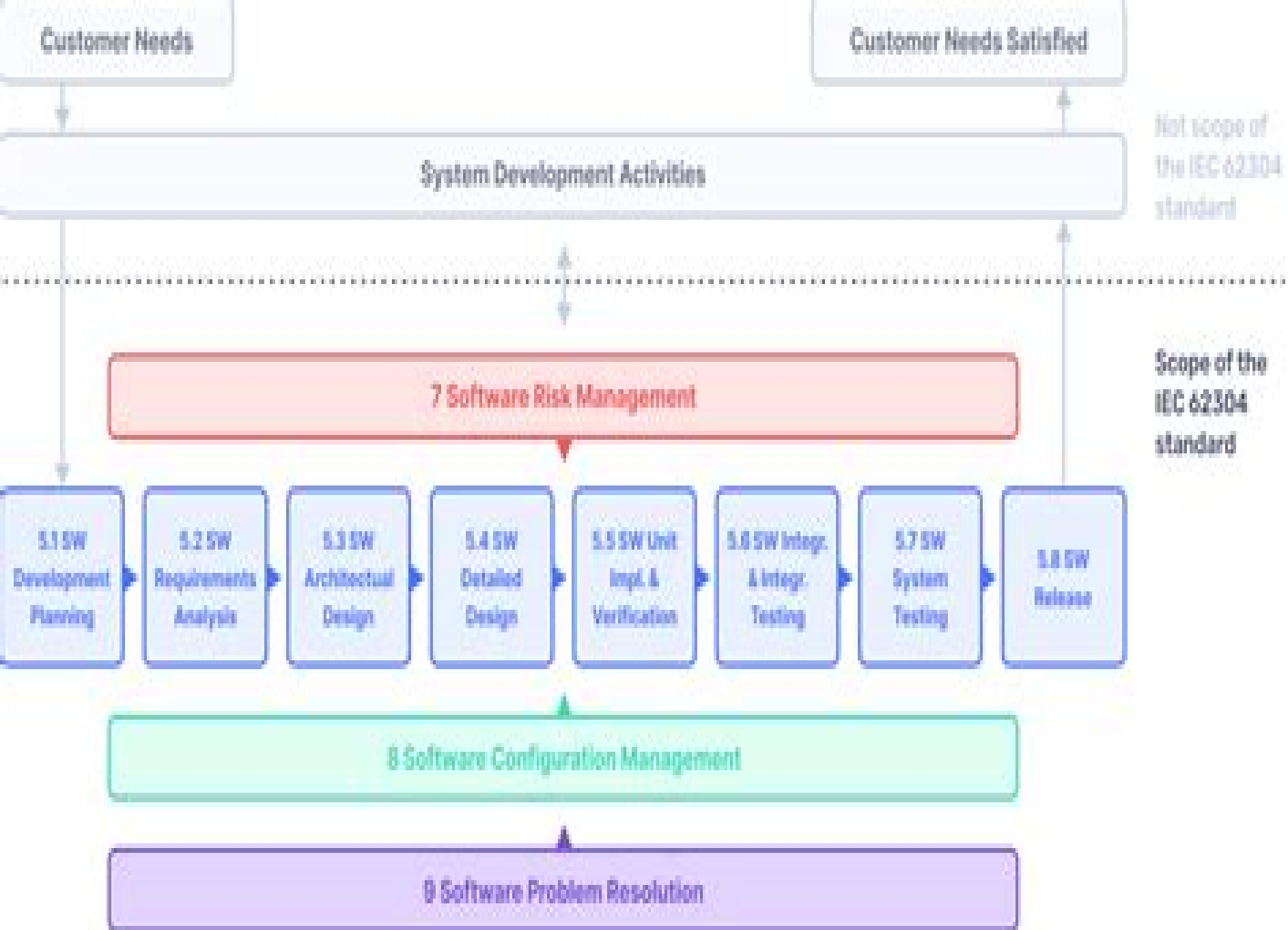




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**Tanja Woronowicz, Terry Rout, Rory V.
O'Connor, Alec Dorling**

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Anforderungen an Medizinprodukte Johann Harer, Christian Baumgartner, 2021-11-08 Alle relevanten Informationen und Anforderungen rund um Medizinprodukte und in vitro Diagnostika Als Hersteller von Medizinprodukten und in vitro Diagnostika oder als deren Zulieferer müssen Sie eine immer größere Zahl an gesetzlichen Vorgaben und Qualitätsanforderungen erfüllen ISO Normen EU Richtlinien sowie länderspezifische Gesetze und Ausführungsbestimmungen Dieses Buch navigiert Sie durch diese vielschichtigen Anforderungen an Medizinprodukte und in vitro Diagnostika Die einzelnen Anforderungen werden dabei praxisorientiert vorgestellt wobei Sie einen konkreten Leitfaden zu deren Umsetzung erhalten unter besonderer Berücksichtigung der neuen EU Verordnungen und der aktuellen ISO 13485 Viele Beispiele Tipps und Hinweise auf Stolpersteine erleichtern die Umsetzung in der Praxis Highlights Konkreter Leitfaden zur Umsetzung der regulatorischen Anforderungen Berücksichtigt u a ISO 13485 MP und IVD VO cGMP Zum Download Praktische Arbeitshilfen und weiterführende Information

Basiswissen Medizinische Software Christian Johner, Matthias Hölzer-Klüpfel, Sven Wittorf, 2020-10-28 Das Basiswerk für die Entwicklung von Software als Medizinprodukt Kompakter umfassender Überblick über die relevanten Gebiete der normenkonformen Entwicklung von medizinischer Software Zur Vorbereitung auf die Prüfung zum Certified Professional for Medical Software Dieses Buch beschreibt den gesamten Lebenszyklus von Software als Medizinprodukt Es deckt den kompletten CPMS Lehrplan Foundation Level ab und ergänzt ihn durch weitere Informationen Behandelt werden im Einzelnen Rechtliche Grundlagen Qualitäts- und Dokumentenmanagement ISO 13485 Risikomanagement und analyse ISO 14971 Best Practices des Software Engineering IEC 62304 Gebrauchstauglichkeit Benutzungsschnittstellen und IEC 62366 Medizinische Informatik IT Security Das Buch eignet sich zur individuellen Vorbereitung auf die CPMS Zertifizierungsprüfung und als Begleitliteratur zu den entsprechenden Vorbereitungsschulungen Die 3. Auflage wurde komplett bearbeitet und beinhaltet den aktuellen Stand der Normen und Richtlinien für die Medizintechnik

Software für Medizingeräte Georg Heidenreich, Gerd Neumann, 2015-07-06 Programme für Medizingeräte müssen der Norm IEC 62304 entsprechen Diese Software Norm ist sehr vielseitig und eignet sich für alle möglichen Projektarten und Größen Immer wieder treten dabei Spezialfälle auf in denen die Norm individuell ausgelegt werden muss Aus der Mitarbeit an der Norm einer umfangreichen FAQ Liste der Beratung von Software Entwicklern und vielen Diskussionen und Schulungen haben die Autoren eine Fülle von Erfahrungen gesammelt die sie in dem Buch präsentieren Dabei nutzen sie den Arbeitsablauf des Praktikers um auf die möglichen Fallbeispiele und deren Lösung hinzufügen Entwicklungsleiter Programmierer Qualitätsverantwortliche sowie Studenten der Medizintechnik erhalten mit diesem kompakten Buch eine praktische und vielseitige Auslegung der gesetzlichen Anforderungen an Software Entwicklungsprozesse Entwicklungsleiter finden darin eine normgerechte Vorgehensweise für ihre Prozesse Qualitätsverantwortliche Informationen zu Koordination Dokumentation und Controlling und Programmierer eine Einführung in die Umsetzung der anwendbaren Norm aus ihrer

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Software Process Improvement and Capability Determination Tanja Woronowicz,Terry Rout,Rory V. O'Connor,Alec Dorling,2013-05-21 This book constitutes the refereed proceedings of the 13th International Conference on Software Process Improvement and Capability Determination SPICE 2013 held in Bremen Germany in June 2013 The 21 revised full papers presented and 7 short papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on process quality medical device software processes design and use of process models studies of software development agile development IT service management assessment for diagnosis

Software Process Improvement and Capability Determination Paul M. Clarke,Rory V. O'Connor,Terry Rout,Alec Dorling,2016-05-11 This book constitutes the refereed proceedings of the 16th International Conference on Software Process Improvement and Capability Determination SPICE 2016 held in Dublin Ireland in June 2016 The 28 full papers presented together with 5 short papers were carefully reviewed and selected from 52 submissions The papers are organized in the following topical sections SPI in regulated and safety critical domains gamification and education issues in SPI SPI in agile and small settings SPI and assessment SPI and project management concerns empirical research case studies of SPI knowledge and human communications issues in SPI

SOFSEM 2014: Theory and Practice of Computer Science Viliam Geffert,Bart Preneel,Branislav Rován,Július Štuller,A Min Tjoa,2014-01-20 This book constitutes the refereed proceedings of the 40th International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2014 held in Nov Smokovec Slovakia in January 2014 The 40 revised full papers presented in this volume were carefully reviewed and selected from 104 submissions The book also contains 6 invited talks The contributions covers topics as Foundations of Computer Science Software and Web Engineering as well as Data Information and Knowledge Engineering and Cryptography Security and Verification

ISO 29119 - Die Softwaretest-Normen verstehen und anwenden Matthias Daigl,Rolf Glunz,2024-08-27 Know how zur ISO Norm 29119 aus erster Hand Matthias Daigl ist Mitautor der Normenreihe 29119 und Editor von Teil 5 Leitfaden f r alle die ein modernes Software Testkonzept erstellen wollen und dabei Wert auf Normen Konformit t legen mit vielen Hintergrundinformationen sowie ausf hrlichen Fallstudien aus den unterschiedlichsten Anwendungsbereichen Die ISO IEC IEEE ISO 29119 beschreibt bew hrte Praktiken f r das Software und Systems Engineering Software Testing Dieses Buch gibt eine praxisorientierte Einf hrung und einen fundierten berblick und zeigt insbesondere die Umsetzung der Anforderungen aus der ISO 29119 an die Testaktivit ten auf Der Aufbau des Buches spiegelt die Struktur der Normenreihe wider Entstehungsgeschichte und Kontext Inhalte der Normenreihe ISO 29119 Konzepte und Definitionen Teil 1 Testprozesse Teil 2 Testdokumentation Teil 3 Testverfahren Teil 4 Keyword Driven Testing Teil 5 Anwendungsbeispiele Etwas kompakter werden auch die Technical Reports zur Anwendung der Normen im agilen Umfeld ISO 29119 Teil 6 beim Testen KI basierter Systeme ISO 29119 Teil 11 und beim Testen biometrischer Systeme ISO

20119 Teil 13 behandelt Das Buch richtet sich in erster Linie an Praktiker die einen leichteren Einstieg in die Normenreihe und eine Hilfestellung bei der Umsetzung der ISO 29119 in der Praxis suchen Die 2 Auflage wurde in vielen einzelnen Aspekten aktualisiert Dar ber hinaus wurde ein zus tzliches Projektbeispiel f r den neu hinzugekommenen Teil 5 der Norm zu Keyword Driven Testing aufgenommen **Sicherheitskritische Mensch-Computer-Interaktion** Christian

Reuter,2018-01-04 Dieses Lehr und Fachbuch gibt eine fundierte und praxisbezogene Einf hrung sowie einen berblick ber Grundlagen Methoden und Anwendungen der Mensch Computer Interaktion im Kontext von Sicherheit Notf llen Krisen Katastrophen Krieg und Frieden Dies adressierend werden interaktive mobile ubiquit re und kooperative Technologien sowie Soziale Medien vorgestellt Hierbei finden klassische Themen wie benutzbare IT Sicherheit Industrie 4 0 Katastrophenschutz Medizin und Automobil aber auch Augmented Reality Crowdsourcing Shitstorm Management Social Media Analytics und Cyberwar ihren Platz Methodisch wird das Spektrum von Usable Safety bis Usable Security Engineering von Analyse ber Design bis Evaluation abgedeckt Das Buch eignet sich ebenso als Lehrbuch f r Studierende wie als Handbuch f r Wissenschaftler Designer Entwickler und Anwender **Beratung und Digitalisierung** Stephan Rietmann, Maik

Sawatzki, Mathias Berg, 2019-09-05 Digitalisierung ist mit tiefgehenden nderungen sozialer psychologischer und kultureller Gewohnheiten verbunden Dies betrifft beispielsweise die Art wie soziale Beziehungen gestaltet werden oder wie wir als Person ber uns selbst denken wenn ein Algorithmus mehr Kenntnis von uns hat als wir selbst Dieser explorative Sammelband enth lt fachwissenschaftliche und praxisorientierte Beitr ge die Chancen und Risiken von Digitalisierung interdisziplin r beleuchten und der Leserschaft wertvolle Impulse zur Reflektion f r die eigene Beratungspraxis bieten fneojpkk Software Process Improvement and Capability Determination Rory O'Connor, Terry Rout, Fergal McCaffery, Alec Dorling, 2011-06-15

This book constitutes the refereed proceedings of the 11th International Conference on Software Process Improvement and Capability Determination SPICE 2011 held in Dublin Ireland in May June 2011 The 15 revised full papers presented and 15 short papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on process modelling and assessment safety and security medi SPICE high maturity implementation and improvement

Using Event-B for Critical Device Software Systems Neeraj Kumar Singh, 2013-06-19 Defining a new development life cycle methodology together with a set of associated techniques and tools to develop highly critical systems using formal techniques this book adopts a rigorous safety assessment approach explored via several layers from requirements analysis to automatic source code generation This is assessed and evaluated via a standard case study the cardiac pacemaker Additionally a formalisation of an Electrocardiogram ECG is used to identify anomalies in order to improve existing medical protocols This allows the key issue that formal methods are not currently integrated into established critical systems development processes to be discussed in a highly effective and informative way Using Event B for Critical Device Software Systems serves as a valuable resource for researchers and students of formal methods The assessment of critical systems

development is applicable to all industries but engineers and physicians from the health domain will find the cardiac pacemaker case study of particular value *Software als Medizinprodukt* Mark Hastenteufel, Sina Renaud, 2019-11-15

Lernen Sie mit diesem Buch wie Sie Software erfolgreich als Medizinprodukt entwickeln und zulassen Die zunehmende Digitalisierung bringt enorme Fortschritte in der Medizin Softwarel sungen sind l ngst ein integraler Bestandteil moderner Medizintechnik Gleichzeitig versch rft sich die Gesetzgebung f r die Entwicklung medizinischer Software zunehmend Viele Software Hersteller stehen deshalb vor der Herausforderung die schnellen Entwicklungen mit der langsameren B rokratie rund um Gesetzes nderungen in Einklang zu bringen Dieses Buch zeigt Ihnen alles was Sie ber die Entwicklung von Software als Medizinprodukt wissen m ssen Die Autoren erl utern die wichtigen Aspekte entlang des Software Lebenszyklus und helfen Medizintechnikern bei der Formulierung von Softwareanforderungen f r Medizinprodukte Auch die oft Hardware lastig formulierten Medizintechnik Normen erkl ren die Autoren auf leicht verst ndliche Weise Das Buch schl gt eine Br cke zwischen Medizintechnik und IT Industrie Neben europ ischen Regularien ber cksichtigen Mark Hastenteufel und Sina Renaud auch internationale Aspekte Einblicke in die Branche und Praxis Die Autoren geben Ihnen in diesem Buch zun chst einen kurzen berblick ber die wirtschaftliche Bedeutung von Software als Medizinprodukt Sie kl ren warum Medizintechnik ein bedeutender Wirtschaftsfaktor ist und zeigen was die Branche besonders macht Anschlie end setzen sie sich mit diesen Kernthemen auseinander Die Grundlage Medical Device Regulation MDR Die Umsetzung Normen Spezifikationen und Guidelines Grundlagen des Software Engineerings Software als Medizinprodukt Zulassungen in den USA Ausblick auf weltweite Zulassungen Damit hilft dieses Buch Medizintechnikern ihr Wissen ber die Digitalisierung auszubauen Software Entwicklern erleichtert es den Weg in die Medizintechnik Eine Empfehlung wenn Sie mit den Grundlagen vertraut sind Leser sollten f r das Buch Software als Medizinprodukt bereits ein gewisses Grundverst ndnis im Bereich IT und Softwareentwicklung mitbringen besonders in Hinblick auf Programmierung und Modellierung Daher ist dieses Werk auf folgende Zielgruppen ausgerichtet a Dozierende und Studierende der Fachgebiete Software Engineering Medizininformatik und technik b Praktiker wie Softwareentwickler Projektleiter oder Qualit tsmanager bei Medizintechnikherstellern

Encyclopedia of Software Engineering Three-Volume Set (Print) Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the

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Systems, Software and Services Process Improvement Xabier Larrucea,Izaskun Santamaria,Rory V. O'Connor,Richard Messnarz,2018-08-22 This volume constitutes the refereed proceedings of the 25th European Conference on Systems Software and Services Process Improvement EuroSPI conference held in Bilbao Spain in September 2018 The 56 revised full papers presented were carefully reviewed and selected from 95 submissions They are organized in topical sections on SPI context and agility SPI and safety testing SPI and management issues SPI and assessment SPI and safety critical gamifySPI SPI in industry 4 0 best practices in implementing traceability good and bad practices in improvement safety and security experiences with agile and lean standards and assessment models team skills and diversity strategies SPI in medical device industry empowering the future infrastructure

Writing In-House Medical Device Software in Compliance with EU, UK, and US Regulations Philip S. Cosgriff,Matthew J. Memmott,2024-03-26 This book is a comprehensive guide to producing medical software for routine clinical use It is a practical guidebook for medical professionals developing software to ensure compliance with medical device regulations for software products intended to be sold commercially shared with healthcare colleagues in other hospitals or simply used in house It compares requirements and latest regulations in different global territories including the most recent EU regulations as well as UK and US regulations This book is a valuable resource for practising clinical scientists producing medical software in house in addition to other medical staff writing small apps for clinical use clinical scientist trainees and software engineers considering a move into healthcare The academic level is post graduate as readers will require a basic knowledge of software engineering principles and practice Key Features Up to date with the latest regulations in the UK the EU and the US Useful for those producing medical software for routine clinical use Contains best practice

Software Process Improvement and Capability Determination Terry Rout,Rory V. O'Connor,Alec Dorling,2015-06-02 This book constitutes the refereed proceedings of the 15th International Conference on Software Process Improvement and Capability Determination SPIICE 2015 held in Gothenburg Sweden in June 2015 The 17 revised full papers presented together with three short papers were carefully reviewed and selected from 48 submissions The papers are organized in topical sections on industrial frameworks implementation and assessment process improvement agile processes assessment and maturity models process and education

Embedded Software Development for Safety-Critical Systems Chris Hobbs,2017-09-07 I highly recommend Mr Hobbs book Stephen Thomas PE Founder and Editor of FunctionalSafetyEngineer com Safety critical devices whether medical automotive or industrial are increasingly dependent on the correct operation of sophisticated software Many standards have appeared in the last decade on how such systems

should be designed and built Developers who previously only had to know how to program devices for their industry must now understand remarkably esoteric development practices and be prepared to justify their work to external auditors Embedded Software Development for Safety Critical Systems discusses the development of safety critical systems under the following standards IEC 61508 ISO 26262 EN 50128 and IEC 62304 It details the advantages and disadvantages of many architectural and design practices recommended in the standards ranging from replication and diversification through anomaly detection to the so called safety bag systems Reviewing the use of open source components in safety critical systems this book has evolved from a course text used by QNX Software Systems for a training module on building embedded software for safety critical devices including medical devices railway systems industrial systems and driver assistance devices in cars Although the book describes open source tools for the most part it also provides enough information for you to seek out commercial vendors if that s the route you decide to pursue All of the techniques described in this book may be further explored through hundreds of learned articles In order to provide you with a way in the author supplies references he has found helpful as a working software developer Most of these references are available to download for free *Medical Device Software Verification, Validation and Compliance* David A. Vogel,2011 Here OCOs the first book written specifically to help medical device and software engineers QA and compliance professionals and corporate business managers better understand and implement critical verification and validation processes for medical device software Offering you a much broader higher level picture than other books in this field this book helps you think critically about software validation to build confidence in your software OCOs safety and effectiveness The book presents validation activities for each phase of the development lifecycle and shows why these activities are important and add value how to undertake them and what outputs need to be created to document the validation process From software embedded within medical devices to software that performs as a medical device itself this comprehensive book explains how properly handled validation throughout the development lifecycle can help bring medical devices to completion sooner at higher quality in compliance with regulations

Real-Time UML Workshop for Embedded Systems Bruce Powel Douglass,2014-02-05 Written as a workbook with a set of guided exercises that teach by example this book gives a practical hands on guide to using UML to design and implement embedded and real time systems A review of the basics of UML and the Harmony process for embedded software development two on going case examples to teach the concepts a small scale traffic light control system and a large scale unmanned air vehicle show the applications of UML to the specification analysis and design of embedded and real time systems in general A building block approach a series of progressive worked exercises with step by step explanations of the complete solution clearly demonstrating how to convert concepts into actual designs A walk through of the phases of an incremental spiral process posing the problems and the solutions for requirements analysis object analysis architectural design mechanistic design and detailed design *Mastering Safety Risk Management for Medical and In Vitro Devices* Jayet

Moon,Arun Mathew,2024-05-10 When it comes to medical and in vitro devices risk management starts with a design assurance process that helps practitioners identify understand analyze and mitigate the risks of the healthcare product design for favorable benefit risk assessment Risk management actively follows the product s life cycle into production and post market phases This book offers a blueprint for implementing an effective risk management system It provides risk management tools and a compliance framework for methods in conformance to ISO 13485 2016 ISO 14971 2019 European Union MDR IVDR and US FDA regulations including the new FDA QMSR

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