

Developing Safety Critical Software A Practical Guide For Aviation Software And Do 178c Compliance By Leanna Rierson 18 Jan 2013 Hardcover

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Developing Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C Compliance equips you with the information you need to effectively and efficiently develop safety-critical, life-critical, and mission-critical software for aviation. The principles also apply to software for automotive, medical, nuclear, and other safety-critical domains.

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Safety-critical software systems are developed within a risk-based framework: the regulatory framework requires the assessment and mitigation of all reasonably foreseeable risks prior to placing the products on the market. A risk assessment includes the determination of key hazards, risks, failure modes, and mitigations, for software where the device risks have to be linked to software items.

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Figure 4: Safety Critical Software Development Pyramid Successful creation of safety critical software is dependent on many factors. Figure 4 illustrates there is a hierarchy of constraint necessary within the development organization. The top of the pyramid represents the culture of a safety critical environment.

~~Principles of Safety Critical Software Design~~

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Software Development: DO-178B (a) A detailed description of how the software satisfies the specified software high-level requirements, including algorithms, data-structures and how software requirements are allocated to processors and tasks. (b) The description of the software architecture defining the software

~~Safety-Critical Software Development: DO-178B~~

Software engineering for safety-critical systems. Software engineering for safety-critical systems is particularly difficult. There are three aspects which can be applied to aid the engineering software for life-critical systems. First is process engineering and management. Secondly, selecting the appropriate tools and environment for the system.

~~Safety-critical system - Wikipedia~~

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~~Developing Safety-Critical Software by Rierson, Leanna (ebook)~~

Software system safety is a subset of system safety and system engineering and is synonymous with the software engineering aspects of Functional Safety. As part of the total safety and software development program, software cannot be allowed to function independently of the total effort.

~~Software system safety - Wikipedia~~

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