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Developing Safety Critical Software A

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.

4 challenges in developing safety-critical software (and ...

Leanna Rierson is an independent consultant in software, complex electronic hardware, and integrated module avionics (IMA) development for safety-critical systems, with emphasis on civil aviation. She has more than 20 years of experience in the software and aviation industry.

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The Power of 10: Rules for Developing Safety-Critical Code

A safety-critical system (SCS) or life-critical system is a system whose failure or malfunction may result in one (or more) of the following outcomes: death or serious injury to people; loss or severe damage to equipment/property; environmental harm; A safety-related system (or sometimes safety-involved system) comprises everything (hardware, software, and human aspects) needed to perform one ...

Safety-critical system - Wikipedia

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Developing Safety-Critical Software | Taylor & Francis Group

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Safety-critical software benefits from DevSecOps automation in: Repeatability is the notion that tests may be rerun at any time. Provided that the behavior of the software (or the tests) have not changed, the results of two individual executions should be identical.

DevSecOps Automation for Safety-Critical Software | Perforce

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Software safety is based upon (1) developing valid requirements as a result of efforts to identify, characterize, and reduce the hazards and risks and

(2) assuring the integrity of the software and proper implementation of the safety requirements.

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