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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.

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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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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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DevSecOps Automation for Safety-Critical Software | Perforce

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