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## **4 challenges in developing safety-critical software (and**

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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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## 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 ...

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It has a strong concept of architecture and provides enough rigor to be used to develop a system when failure can be extremely costly, such as safety-critical systems. The Harmony process has many practices that integrate into a cohesive method for developing software. These are among the important practices:

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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.

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