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yet when? accomplish
you recognize that you
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don't you attempt to
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aviation. The principles

also apply to software

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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

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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

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coding rules can make

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the analysis of critical software components

more reliable. Most serious software

development projects use coding guidelines.

These guidelines are meant to define the

ground

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A safety-critical system (SCS) or life-critical system is a system whose failure or

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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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Safety-critical

system - Wikipedia

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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

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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

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behavior of the
software (or the tests)
have not changed, the
results of two
individual executions
should be identical.

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Software safety is

based upon (1)

developing valid

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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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revolutionizes the way

black ice is detected

and provides several

other improvements in

traffic safety as well.

The software installed

in vehicles can also

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