

## Embedded Software Development For Safety Critical Systems

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For those of us in the automotive segment of embedded software, the success – or failure – of our companies depends heavily on meeting safety requirements. If we do not develop code using proven development methods to insure safety, at best we will go out of business; at worst, we could cause destruction of property, injury, or even death.

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The safety software development process required by IEC 61508 demands a high level of traceability and verification, beyond that of many development environments. While it's probably unrealistic to use such a process for “everyday” development projects, IEC 61508 does introduce some novel concepts to software development such as criticality analysis and impact analysis.

Embedded software development for safety-critical systems ...

Chris Hobbs is a safety engineer who works on the QNX real-time operating system. I discovered him while reading QNX documentation and that led to reading his book Embedded Software Development for Safety-Critical Systems. This book is a practical introduction for software engineers who need to develop software that is compliant to functional safety standards...

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