Embedded Software Development for Safety-Critical Systems

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Safety-critical devices, whether medical, automotive, or industrial, are increasingly dependent on the correct operation of sophisticated software. Many standards have appeared in the last decade on how such systems should be designed and built. Developers, who previously only had to know how to program devices for their industry, must now understand remarkably esoteric development practices and be prepared to justify their work to external auditors.

Embedded Software Development for Safety-Critical Systems discusses the development of safety-critical systems under the following standards: IEC 61508; ISO 26262; EN 50128; and IEC 62304. It details the advantages and disadvantages of many architectural and design practices recommended in the standards, ranging from replication and diversification, through anomaly detection to the so-called "safety bag" systems.

Reviewing the use of open-source components in safety-critical systems, this book has evolved from a course text used by QNX Software Systems for a training module on building embedded software for safety-critical devices, including medical devices, railway systems, industrial systems, and driver assistance devices in cars.

Although the book describes open-source tools for the most part, it also provides enough information for you to seek out commercial vendors if that's the route you decide to pursue. All of the techniques described in this book may be further explored through hundreds of learned articles. In order to provide you with a way in, the author supplies references he has found helpful as a working software developer. Most of these references are available to download for free.

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