Software Engineering for Embedded Systems: Chapter 4. Software Design Architecture and Patterns for Embedded Systems

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The software architecture of embedded computing systems is a depiction of the system as a set of structures that aids in the reasoning and understanding of how the system will behave. Software architecture acts as the blueprint for the system as well as the project developing it. The architecture is the primary framework of important embedded system qualities such as performance, modifiability, and security, none of which can be achieved without a unifying architectural vision. Architecture is an artifact for early analysis to ensure that a design approach will lead to an acceptable system. This chapter will discuss the details of these aspects of embedded software architectures.

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