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An embedded software or embedded system programming is computer software, which is used to control devices by providing a set of instructions. It is also named as firmware, various devices with various functionalities can be programmed using embedded software, by maintaining design constraints (like response time constraints, strict deadlines, and processed data) and storing the final data in memory (Ram/ Rom).

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In embedded systems design, there is no single language that is the perfect solution for every system. Programming language standards, and what they introduce into an embedded systems architecture, are used as an example in this section, because a programming language can introduce an additional component into an embedded architecture. In addition, embedded systems software is inherently based on one or some combination of multiple languages. The examples discussed in-depth in this

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This hardware based embedded design requires detailed knowledge of digital circuit design and computer architecture. Like microcontrollers are programmed using Assembly Language or a High Level Language (like C), FPGA chips are programmed using Verilog or VHDL language.

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