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What is Embedded System Design :

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Steps in the Design Process. An Embedded system is a controller, which controls many other electronic devices. It is a combination of embedded hardware and software. There are two types of embedded systems microprocessors and micro-controller. Micro-processor is based on von Neumann model/architecture (where

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program + data resides in the same memory location), it is an important part of the computer system, where external processors and peripherals are ...

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Embedded systems are a combination of hardware and software as well as other

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components that we bring together into products such as cell phones, music player, a network router, or an aircraft guidance system. They are a system within another system as we see in Figure 1.1

Figure 1.1: A simple embedded system

Building an embedded system

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An embedded system is a combination of computer software and hardware which is either fixed in capability or programmable. Example of embedded systems is laser printer which manage various aspect of the printing. In 1960, embdded system was first used for developing Apollo Guidance System by

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Charles Stark Draper at MIT.

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We can broadly define an embedded system as a microcontroller-based, software-driven, reliable, real-time control system, designed to perform a specific task. It can be thought of as a

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computer hardware system having software embedded in it. An embedded system can be either an independent system or a part of a large system.

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An embedded system is some

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combination of computer hardware and software, either fixed in capability or programmable, that is designed for a specific function or for specific functions within a larger system.

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Embedded systems basics. It may be asked what is an embedded system. With many processor based systems and computers it is useful to define what an embedded system is. A convenient definition for an embedded system is: An embedded system is any computer system contained within a product that is not described as a computer.

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An embedded system is a computer system—a combination of a computer processor, computer memory, and input/output peripheral devices—that has a dedicated function within a larger mechanical or electrical system. It is

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embedded as part of a complete device often including electrical or electronic hardware and mechanical parts.

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