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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 embedded as part of a complete device often including electrical or electronic hardware and mechanical parts. Because an embedded system typically controls physical operations ...

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1. Introduction to Embedded System Design

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Processor Design addresses the design of different types of embedded, firmware-programmable computation engines. Because the design and customization of embedded processors has become a mainstream task in the development of complex SoCs (Systems-on-Chip), ASIC and SoC designers must master the integration and development of processor hardware as an integral part of their job.

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