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Later, in 1974, the 8-bit INTEL-8080 microprocessor was introduced, which was faster, with more instructions and programming facilities as compared to previous versions [31]. In 1977, an INTEL-8080 based digital system prototype was first proposed for the speed control of a DC motor (Figure 2),...

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accepts binary data as input, processes it according to instructions stored in its memory and provides results as output. Microprocessors contain both combinational logic and sequential digital logic. Microprocessors operate

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Thus, a sequence of instructions needs to be formulated and input to the microprocessor based system for effective operation. A sequence of instructions designed to perform a particular task is known as a program. A set of programs written for a microprocessor based system is known as the software for that system.

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## **Microprocessor - Wikipedia**

Description : Introduction to Microprocessors introduces the practicing engineer to microprocessors and covers topics ranging from components for information processing to hardware structures and addressing modes, along with support software and structured programming. General principles are illustrated with examples from commercial microprocessors.

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ARCHITECTURE OF 8085 MICROPROCESSOR. The 8085 microprocessor is an 8-bit processor available as a 40-pin IC package and uses +5 V for power. It can run at a maximum

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frequency of 3 MHz. Its data bus width is 8-bit and address bus width is 16-bit, thus it can address  $2^{16} = 64$  KB of memory.

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The 8085 Microprocessor, Address Bus, Multiplexed Address/Data Bus, Control and Status Signals, Power Supply and Clock Frequency, Externally Initiated Signals Including Interrupts, Microprocessor Communication and Bus Timings, Demultiplexing the Bus AD7 AD0, Generating Control Signals, A Detailed Look at the 8085 MPU and its Architecture, The ...

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Introduction to Microprocessors The microprocessor is one of the most important components of a digital computer. It acts as the brain of the computer system. As technology has progressed, microprocessors have become faster, smaller and capable of doing more work per clock cycle. Sometimes, microprocessor is written as  $\mu P$ .

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