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## An Introduction to Architecture and programming 8051 and 80196



### INTRODUCTION

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While studying microprocessor based system design, one may note that a stand alone microprocessor is not self-sufficient. It requires other components like memory and input/output devices to form a minimum workable system configuration. Rather, one may infer that in addition to a microprocessor, the memory and I/O ports are integral parts of a practical system. To have all these components in a discrete form and to assemble them on a PCB, is usually not an affordable solution for the following reasons:

1. The overall system cost of a microprocessor based system built around a CPU, memory and other peripherals is high as compared to a microcontroller based system.
2. A large sized PCB is required for assembling all these components, resulting in an enhanced cost of the system.
3. Design of such PCBs require a lot of effort and time and thus the overall product design requires more time.
4. Due to the large size of the PCB and the discrete components used, physical size of the product is big and hence it is not handy.
5. As discrete components are used, the system is not reliable nor is it easy to trouble- shoot such a system.

Considering all these problems, Intel decided to integrate a microprocessor along with I/O ports and minimum memory into a single package. Another frequently used peripheral, a programmable timer, was also integrated to make this device a self-sufficient one. This device which contains a microprocessor and the above mentioned components has been named a *microcontroller*. A microcontroller a microprocessor with integrated peripherals. The introduction of microcontrollers drastically changed the microprocessor based system design concepts, specially in case of small dedicated systems. Design with microcontrollers has the following advantages:

1. As the peripherals are integrated into a single chip, the overall system cost is very low.
2. The size of the product is small as compared to the microprocessor based systems thus very handy.
3. The system design requires very little efforts and is easy to troubleshoot and maintain.

# Ak Ray Km Bhurchandi

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