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The Intel 8051 microcontroller is one of the most popular general purpose microcontrollers in use today.

The success of the Intel 8051



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spawned a number of clones, which are collectively referred to as the MCS-51 family of microcontrollers, which includes chips from vendors such as Atmel, Philips, Infineon, and Texas Instruments.

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- Wikibooks,

open ...

Embedded Systems

- 8051

Microcontroller

- The first

microprocessor

4004 was

invented by

Intel

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Microcontroller

Corporation.

8085 and 8086

microprocessors

were also

invented by

Intel. In 1981,

Intel introduced

an 8-bit m

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This article is

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about the 8051  
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Introduction and  
Muhammad Ali  
some of its  
Mazidi  
basic features.

The 8051

Microcontroller  
is one of the  
most popular and  
most commonly  
used  
microcontrollers  
in various  
fields like

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embedded

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systems,

consumer The

electronics, Ali

automobiles,  
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etc.

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**Introduction,**

**Basics and**

**Features**

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(PDF) The 8051

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Microcontroller.

The 8051

Microcontroller

was designed in

1980's by Intel.

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Its foundation was on Harvard Architecture and was developed principally for bringing into play in Embedded Systems. At first it was created by means of NMOS technology but as NMOS technology needs more power to

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8051 employing

CMOS technology

and a new

edition ...

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**Microcontroller  
Architecture and  
Applications**

Keil development

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tools for the  
8051 support  
every level of  
developer from  
the professional  
applications  
engineer to the  
student just  
learning about  
embedded  
software  
development. The  
industry-  
standard Keil C

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The Real-  
time Kernels,  
and Single-board  
Computers

support ALL 8051  
derivatives and  
help you get  
your projects  
completed on  
schedule.

**Keil 8051**

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Tools**

Embedded Systems

6 System A

system is an arrangement in which all its unit assemble work together according to a set of rules. It can also be defined as a way

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**Point**

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series is an age

old legendary

40pin 8-bit

Microcontroller

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from ATMEL. This has been the beginner level microcontroller for engineers to explore the field of embedded system.

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Circuit Digest**

The 8051

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The  
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Microcontroller  
is one of the  
basic type of  
microcontroller,  
designed by  
Intel in 1980's.  
This  
microcontroller  
was based on  
Harvard  
Architecture and  
developed  
primarily for  
use in embedded

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Microcontroller

systems

And Embedded  
technology.

Normally, this

microcontroller

was developed

using NMOS

technology,

which requires

more power to

operate.

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**Microcontroller**

**: Architecture,**

*Page 23/45*

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**Block Diagram  
and ...**

A micro controller is an integrated circuit or a chip with a processor and other support devices like program memory, data memory, I/O ports, serial communication



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interface etc  
integrated  
together. Unlike  
a microprocessor  
(ex: Intel  
8085), a  
microcontroller  
does not require  
any external  
interfacing of  
support  
devices. Intel  
8051 is the most  
popular

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Market.

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**Microcontroller  
- Tutorial and  
Guide**

A  
microcontroller  
(MCU for  
microcontroller  
unit) is a small

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computer on a single metal-oxide-semiconductor (MOS) integrated circuit chip. In modern

terminology, it is similar to, but less sophisticated than, a system on a chip (SoC); an SoC may include a

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microcontroller  
as one of its  
components. A  
microcontroller  
contains one or  
more CPUs  
(processor  
cores) along  
with memory and  
programmable ...

**Microcontroller**  
**- Wikipedia**

We have already

*Page 28/45*

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Microcontroller

seen the Pin

And Embedded

Diagram of 8051

Microcontroller

for its standard

40 - pin DIP

(Dual In - line

Package)

configuration.

In this

tutorial, in the

process of

dealing with the

8051

Microcontroller

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Microcontroller  
Architecture, we  
will see the  
hardware aspects  
of the 8051  
microcontroller  
like I/O PORTS,  
RAM, ROM, Timers  
and Serial Port  
etc.

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**Microcontroller**

**Architecture:**

**Internal**

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## **Architecture ...**

The Intel MCS-51 (commonly termed 8051) is a single chip microcontroller (MCU) series developed by Intel in 1980 for use in embedded systems. The architect of the instruction set

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Microcontroller

of the Intel  
MCS-51 was John

H. Wharton.

Intel's original

versions were

popular in the  
1980s and early  
1990s and

enhanced binary  
compatible

derivatives

remain popular  
today. It is an  
example of a



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complex

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instruction ...

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**Intel MCS-51 -**

**Wikipedia**

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projects ideas.

So, Now-a-days  
many engineering

students are

showing lot of

interest to

improve their

practical

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knowledge in  
embedded systems  
in early stage  
by doing the  
embedded systems  
projects in  
their final  
year. Generally  
we use 8051  
Microcontroller  
or PIC  
Microcontroller  
based projects  
as they serve as

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good reference  
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for final year  
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electronics  
engineering  
Ali  
projects.  
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Based Projects  
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students**

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...

Keypads are

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widely used

input devices

being used in

various

electronics and

embedded

projects. They

are used to take

inputs in the

form of numbers

and alphabets,

and feed the

same into system

for further

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processing. In  
this tutorial we  
are going to  
interface a 4x4  
matrix keypad  
with 8051  
microcontroller.

**Keypad**

**Interfacing with  
8051**

**Microcontroller  
(AT89S52)**

Getting knew

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Some Top

Engineering

graduate and a

fresher who has

just passed out.

To learn the

basic concepts

and get an

overview of

embedded systems

here are the 7

best books to



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Language by

Brian Kernighan

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Assembly and C

Second Edition

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*Page 42/45*

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Microcontroller  
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Addressing modes  
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The  
microcontroller  
with examples  
and diagrams.

Direct

addressing mode,  
Immediate,

Register direct  
and indirect,

Indexed

addressing modes

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Microcontroller

SEGGER  
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Microcontroller  
is a full-range  
supplier of  
software,  
hardware and  
development  
tools for  
embedded systems  
(RTOS, IDE,  
debug probe,

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