

# ELECTRONIC DICE

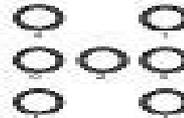
## What is a microcontroller?

A microcontroller is often described as a 'computer-on-a-chip'. It can be used as an 'electronic brain' to control a product, toy or machine.

The microcontroller is an integrated circuit ("chip") that contains memory (to store the program), a processor (to process and carry out the program) and input/output pins (to connect switches, sensors and output devices like motors).

Microcontrollers are purchased 'blank' and then programmed with a specific control program. This program is written on a computer and then 'downloaded' into the microcontroller chip. Once programmed the microcontroller is built into a product to make the product more intelligent and easier to use.

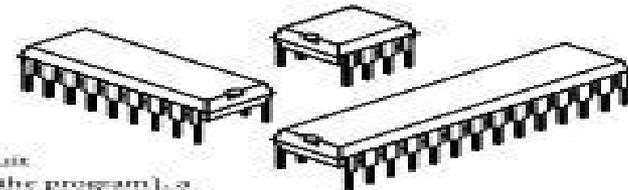
## Example use of a micro-controller.



The picture above shows an electronic dice that can be made to generate a random number. It can be used like a normal dice in games.

The dice works by switching Light Emitting Diodes (LEDs) on and off in the pattern of dots found on a traditional dice. The microcontroller is the 'brain' of the dice. Microcontrollers are powerful electronic components that have a memory and can be programmed to switch things on and off in any sequence. The microcontroller in the dice can switch the LEDs on and off to show numbers between one and six.

As the 'diagonal' pairs on LEDs in the dice always light at the same time, they can be switched on and off by the same microcontroller output. Therefore 4 outputs (3 pairs and the central 'dot') are required.



# 1 Electronic Dice Picaxe

**Ken Anderson**



## **1 Electronic Dice Picaxe:**

**Proceso** ,2000      **Picaxe Project Handbook** Ken Anderson,2017-05-05 The PICAXE microcontroller is an inexpensive tiny computer sitting in a microchip It can be programmed by you to control gadgets your inventions or your creations and the list of these are endless Your ideas and imagination are your only limiting factor Alarm systems keypad entry systems electronic dice games and colour sensors are but a few These are easily achievable within the PICAXE environment You the PICAXE microcontroller and the software that allows you to program it can create or develop interactive projects with it s outside world It can respond to sensors lights motors switches solenoids and all manner of input and output mechanisms and all sorts of contraptions This book is volume 1 part 2 The first 19 are in book 1 a further 12 are in this book The projects are illustrated with pictures electronic schematics and photographs of the working project There is sufficient explanation alongside each project where appropriate This is volume 1 part 2 and continues immediately from volume 1 part 1 If you are just starting out with PICAXE microcontrollers I urge you to obtain part 1 as it contains a lot of starting information about the microcontrollers A website <http://stormxyz.com/picaxe> is there to assist in the projects and all code is available for free download using the code from within the book I hope that the reader of this book is inspired to create their own projects after reading this book Ken Anderson

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