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WHAT IS AN ARDUINO?

- The name **Arduino** is an Italian male name, meaning "strong friend"
- Arduino was born at the Ivrea Interaction Design Institute (in Ivrea, Italy) as an easy tool for fast prototyping, aimed at students without a background in electronics and programming.
- Arduin of Ivrea was the main historical character of the town where this institute is located and Arduino is named after this character.



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WHAT IS AN ARDUINO?



technology is getting smaller, faster and cheaper every day.

- Arduino is a small-sized microcomputer. More precisely, it is a special-purpose **microcontroller** platform.
- Arduino is an open-source electronics platform (designed around a popular microcontroller family-ATMEL) based on easy-to-use hardware and software.
- Electronic circuit, compiler, and libraries are shared for free on the Internet.

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WHAT IS A MICROCONTROLLER (MCU)?

- A microcontroller (sometimes abbreviated μC , uC or MCU) is a small computer on a single integrated circuit containing a processor core, memory, and programmable input/output peripherals.
- Briefly, the microcontroller is an electronic circuit element.



- Arduino use Atmel AVR MCUs (owned by Microchip). For example; Arduino Uno is a microcontroller board based on the ATmega328P.

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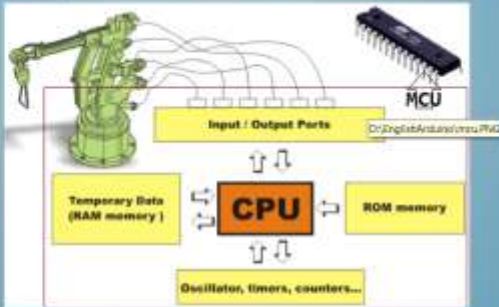
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WHAT IS A MICROCONTROLLER (MCU)?

- Microcontrollers are used in automatically controlled products and devices; such as automobile engine control systems, robotic arms and other embedded systems.



A microcontroller contains CPU (processor) along with RAM/ROM memory and programmable input/output peripherals.

$\text{MCU} = \text{CPU} + \text{Input/Output Ports} + \text{Memory (RAM/ROM)} + \text{Oscillator (System clock)} + \dots$

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