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Shanghai Jiao Tong  
University June 17 – 29,  
2012 Instructor: Thomas E  
Murphy (University of  
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Available on-line at [www.me.umn.edu/courses/me2011/arduino/](http://www.me.umn.edu/courses/me2011/arduino/)  
1 Introduction 1.1

Overview The Arduino  
microcontroller is an easy  
to use yet powerful single  
board computer that has

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gained considerable traction  
in the hobby and  
professional market.

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Description: Game controller-  
shaped microcontroller board

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derived from the Arduino  
Leonardo. It has a number of  
built-in, ready-to-use  
sensors already on the  
board, for easy interaction.  
It's designed for people who  
want to get up and running  
with Arduino without having

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to learn about the  
electronics wiring first.

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ATmega328P microcontroller  
and developed by Arduino.cc.  
The board is equipped with  
sets of digital and analog  
input/output (I/O) pins that  
may be interfaced to various  
expansion boards (shields)  
and other

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Introduction to  
Microcontrollers: Arduino  
Tutorial Arduino UNO Board  
In circuit Serial

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programming Analog inputs  
10-bit within the range 0  
-Vref (max. 5 V) Power  
Supply Distribution (can be  
used to power up  
peripherals) USB Port Input  
voltage (7-12 V recommended)  
ATMEGA328P Microcontroller

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Hardware I2C A4 => SDA A5 =>  
SCL USB-UART bridge

## **Introduction to Microcontrollers: Arduino Tutorial**

The ATmega328P  
Microcontroller (used by the

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Arduino) • AVR 8-bit RISC architecture • Available in DIP package • Up to 20 MHz clock • 32kB flash memory • 1 kB SRAM • 23 programmable I/O channels • Six 10-bit ADC inputs • Three timers/counters • Six PWM

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Cross-platform - The Arduino  
Software (IDE) runs on  
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as well. For teachers, it's conveniently based on the Processing programming environment, so students learning to program in that environment will be familiar with how the Arduino ...



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A robust, open-source microcontroller and programming environment designed for beginners with some knowledge of circuits. Recommended Ages: 12+ (or kids comfy with programming)

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and algebra) Difficulty:  
Intermediate . Average Cost:  
~\$35. There are lots of  
different types of Arduino  
boards. This is the Arduino  
Uno, the best fit for  
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The Arduino hardware comes in several flavors. In the United States, Sparkfun. ([www.sparkfun.com](http://www.sparkfun.com)) is a good source for Arduino hardware.

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This guide covers the Arduino Uno board (Sparkfun DEV-09950, \$29.95), a good choice for students and educators. With the Arduino board, you can write programs and create interface.

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**ARDUINO UNO USER MANUAL Pdf**

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Arduino was initially made with the intention of being an easy tool for fast prototyping and aimed at students who had no prior

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experience with electronics  
and programming. It is an  
open source electronics  
platform built with ease of  
use in mind.

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Processing, Arduino, . Guide  
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Trinket with the familiarity  
of the core Arduino chip,  
the ATmega328. It's like an  
Arduino Pro We also added

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Optiboot support, so you can either program your Pro Trinket over USB. FTDI cable just. The SparkFun Inventor's Guide is your

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The Arduino Uno pinout guide includes information you need about the different pins of the Arduino Uno microcontroller and their uses: power supply, analog and digital pins and ICSP. The guide also discusses

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different communication protocols used by the Arduino and a detailed diagram of the Arduino Uno board.

**The Full Arduino Uno Pinout  
Guide [including diagram]**

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The Arduino UNO uses the Atmega16U2 microcontroller that helps to increase the transfer rate and contain large memory compared to other boards. No extra devices are needed for the Arduino UNO board like

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joystick, mouse, keyboard and many more. The Arduino UNO contain SCL and SDA pins and also have two additional pins fit near to RESET pin.

**Types of Arduino | Complete  
Guide to 6 Different Types**

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a nearly limitless array of  
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Margolis, M (2012).. Make an

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Module 6: Microcontroller

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is a virtual pacemaker.

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