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Catergories of Arduino Boards

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Massimo Banzi
ARDUNIO
Microcontrollers

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2 What is a Microcontroller?

A microcontroller is a very small computer that has digital electronic devices (peripherals) built into it that helps it control things.

These peripherals allow it to sense the world around it and drive the actions of external devices.

An example of a use for a microcontroller is to sense a temperature and depending on the value sensed it could either turn on a fan if things were too warm or turn on a heater if things were too cool.

that microcontrollers are in common devices like cell phones, microwave ovens, and alarm clocks that have buttons for you to input information and displays to tell you things.

But there are even more microcontrollers embedded in things where you never see them. For example there are 30 or more microcontrollers in an automobile. These do everything from sensing the oxygen intake to setting the fuel air mixture to measuring the cabin temperature for controlling the air conditioning levels

3 Microcontroller

A microcontroller is really a full-fledged computer that's contained in the space of a single chip.

Microcontroller Comes With:

Central Processing Unit

RAM

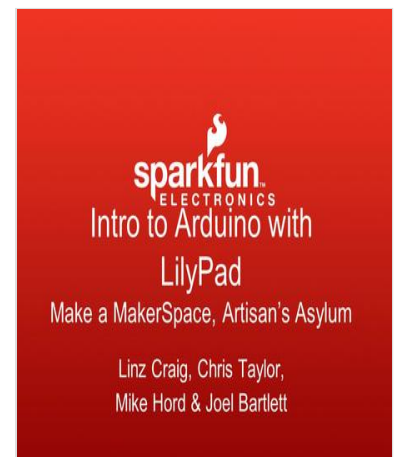
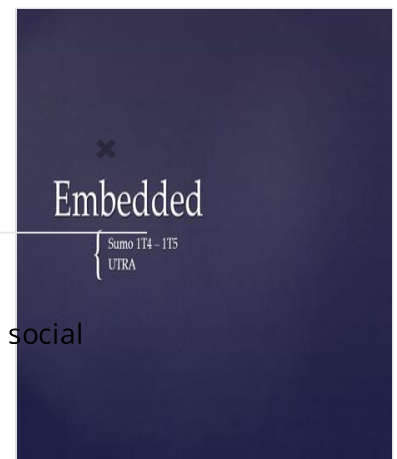
Clock

Programmable type of memory (serves as the holding space for whatever program the microcontroller is expected to run and input and output ports in the form of pins)

5 What is Arduino?

open-source prototyping platform based on easy-to-use hardware and software.

project and user community that designs and manufactures microcontroller-based kits for building digital devices and interactive objects that can sense and control objects in the physical world.



6 Arduino Boards

Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online.

Tell your board what to do by sending a set of instructions to the microcontroller on the board. We think you have liked this presentation. If you wish to download it, please recommend it to your friends in any social system. Share buttons are a little bit lower. Thank you!

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7 Categories of Arduino Boards

8 Entry Level Arduino Boards

Easy to use and ready to power your first creative projects. These boards and modules are the best to start learning and tinkering with electronics and coding.

9 Enhanced Arduino Boards

Experience the excitement of more complex projects choosing one of the boards with advanced functionalities, or faster performances.

10 Internet of Things Arduino Boards

Make connected devices easily with one of these IoT products and open your creativity with the opportunities of the world wide web.

11 Wearable Arduino Boards

Add smartness to your soft projects and discover the magic of sewing the power of electronics directly to textiles.

12 Wearable Arduino Boards

Add smartness to your soft projects and discover the magic of sewing the power of electronics directly to textiles.

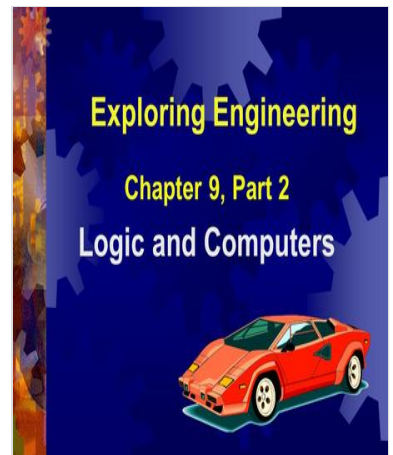
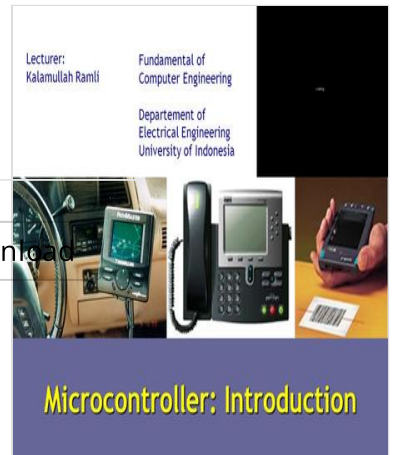
13 ~ Massimo Banzi ~

14 Arduino Website A very good reference (among many others): Arduino UNO

Arduino UNO

Exploring the Arduino Board

Khaled A. Al-Utaibi
alutaibi@uoh.edu.sa



15 Arduino UNO

16 Arduino IDE

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Scott Fitzgerald is an artist and educator whose work examines the interdependence of culture and technology and how physical spaces can be altered through digital manipulation. We think you have liked this presentation. If you wish to download it, please recommend it to your friends in any social system. Share buttons are a little bit lower. Thank you!

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17 Arduino IDE INTERFACE

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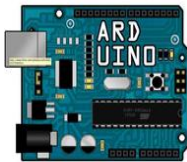
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*Some slides courtesy of Eoin Brazil
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Arduino

Unleash Your Inner Inventor

Using the Arduino Microcontroller
For More Than You Would Expect

UCCS University of Colorado
Colorado Springs



MODULE 1

Computing Essentials

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Century 21 Jr. Input Technologies & Computer Applications

Chapter 1: Applying Computer Basics – Lesson 1

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Today:
Student will be able to describe
the basics of their class and
computing

- Tell me about you and how you use computers.

Lesson 1

Slide 1

Who Are You, Arduino?



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Microcontrollers

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HAVING FUN WITH CODE, USING ARDUINO IN A MIDDLE SCHOOL CS CLASSROOM

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ARDUINO - INTRODUCTION

VSV BREDA AIRSHOW 2017
MAKAIRSHOW



Arduino

Microcontrollers

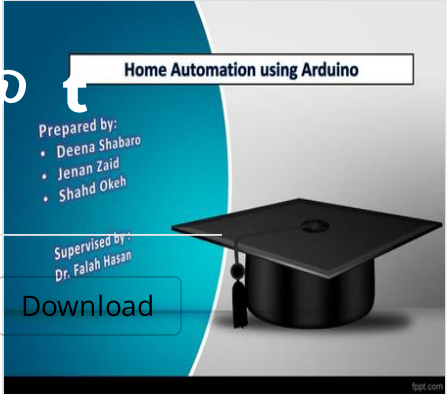
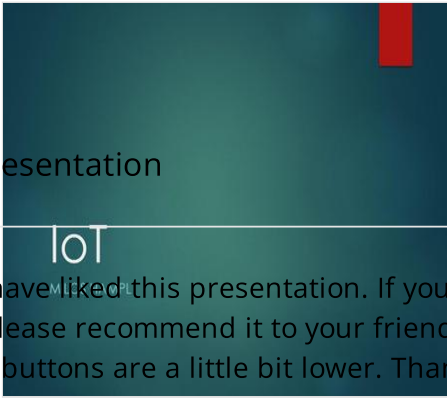
- A microcontroller is a small computer which interacts with its environment, e.g switches, sensors, lights, motors.....
- It does not have its own operating system
- There is no keyboard, mouse, sound, video or internet connection
- Its program needs to be stored in an EPROM
- Once programmed it simply needs power to operate
- A low clock speed is common. This uses less power.

Arduino Circuits

Getting Started:
Building & Programming

IF I ONLY HAD A BRAIN
THE MICROCONTROLLER

"IT LIVES!!!!"



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