#### Microprocessors B (17.384)

Spring 2011

**Lecture Outline** 

**Class # 08** 

March 22, 2011

**Dohn Bowden** 

#### **Today's Lecture**

- Administrative
- Microcontroller Hardware and/or Interface
- Programming/Software
- Lab
- Homework

## Course Admin

#### **Administrative**

- Admin for tonight ...
  - Syllabus Highlights
    - Lab #2 is due tonight -- March 22<sup>nd</sup>
  - We shall continue or start Lab #3 this week
  - Pass back Exam #1
  - Project information was previously posted on the course webpage

#### **Syllabus Review**

Week	Date	Topics	Lab	Lab Report Due
1	01/25/11	PIC pin out, C programming, Watchdog Timer, Sleep		
2	02/01/11	General-purpose 10, LED/switch 10, FSM	1	
3	02/08/11	Lab	1 con't	
4	02/15/11	Interrupts, Timers, interrupt-driven 10	2	
5	02/22/11	Lab	2 con't	1
6	03/01/11	Asynchronous and Synchronous Serial IO (UART, I <sup>2</sup> C, SPI)	3	
7	03/08/11	Examination 1		
X	03/15/11	No Class – Spring Break		
, 8	03/22/11	Lab	3 con't	2
9	03/29/11	Serial EEPROM operation, DAC, DC motor control, Servos, Stepper motor control	4	3
10	04/05/11	Lab	4 con't	
11	04/12/11	Advanced Hardware Topics	Project	4
12	04/19/11	Examination 2		
13	04/26/11	Work on Course Project	Project	
14	05/03/11	Final Exam/Course Project Brief and Demonstration	Demo	
	-		1	5

#### **Chat Page**

- Setting up the Chat Page
  - More to follow as it develops

#### **Course Project**

- Did you submit an email outlining your system proposal NLT Monday March 22<sup>nd</sup>, 2011?
- Any questions?

# Microcontroller Hardware and/or Interfaces

## No topics for discussion this week ...

#### Microcontroller Hardware and / or Interfaces

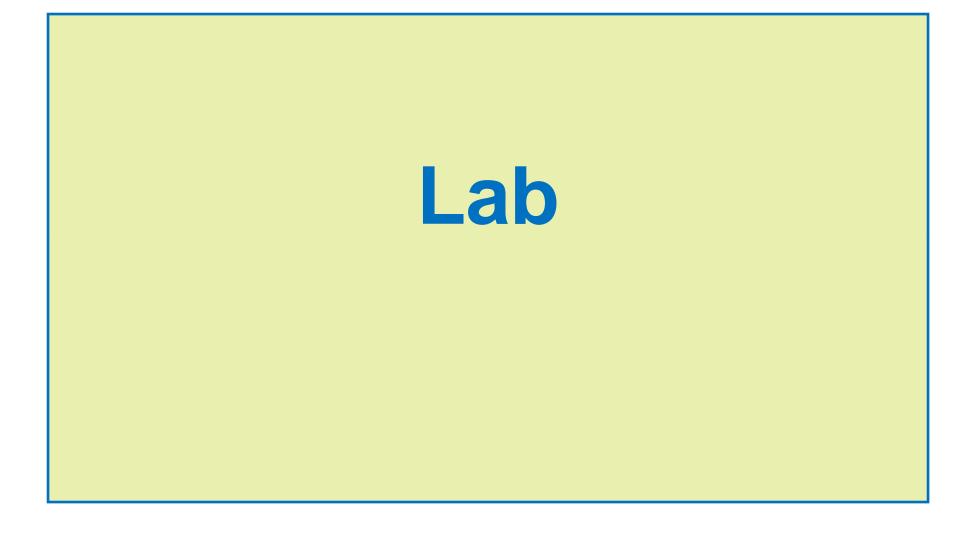
No topics for discussion

## Programming/Software

## No topics for discussion this week ...

#### **Programming/Software**

No topics for discussion



#### Peer Review of Software ...

#### **Peer Review of Software Developed**

- How did you write your code?
- What problems did you encountered?
- Any questions that you need resolved?

#### Lab #3 ...

#### **Lab** #3

- I<sup>2</sup>C interface with a serial EEPROM
  - Will write data to the EEPROM
  - Then read data from the EEPROM
    - Display the data on a Bar Graph display
      - Could add a LCD display to perform the same function

## **Next Class**

#### **Next Class Topics**

- March 29<sup>th</sup> ... PWM, DC motor control, Servos, and Stepper motor control
- Start Lab #4

## Homework

#### Homework

- Read next topic information ...
  - Will post later this week
- Labs ...
  - Lab #3 Report ... due March 29<sup>th</sup>

## Time to start the lab ...

#### Lab

• Continue or start Lab #3

### White Board ...

## References

#### References

1. None