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 22nd
  - 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 IO, LED/switch IO, FSM	1	
3	02/08/11	Lab	1 con't	
4	02/15/11	Interrupts, Timers, interrupt-driven IO	2	
5	02/22/11	Lab	2 con't	1
6	03/01/11	Asynchronous and Synchronous Serial IO (UART, I^2C, 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	

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 22nd, 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

Lab

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^2C 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 29th … 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 29th

Time to start the lab …

Lab

- **Continue or start Lab #3**

White Board …

References

References

1. None