EE2361: Introduction to Microcontrollers

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Dept. of ECE

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Course Information

• **Class webpage**
  – Login to http://moodle.umn.edu

• **Instructor: Kia Bazargan**
  – Office: EE/CSci 4-159, Email: kia@umn.edu
  – Phone: (612) 625-4588
  – *Office hours:* Wed 10-11, or by appointment
## Rough Course Overview

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Class Materials

• Textbook (none required):
  – “Learning to Fly the PIC24” by Lucio Di Jasio.
  – “Embedded Design with the PIC18F452 Microcontroller”, by Peatman

• PIC microcontroller manuals
  – PIC24FJ64GA002 Data Sheet, Programmer Ref Manual

• Documents posted on Moodle
  – Slides
  – Lecture notes
  – Additional documents (not covered in class)
Grading Policy

• Labs (20%)
  – 8 Labs, already posted first week’s labs
  – Labs 1 and 5 are challenging

• Homework (20%)
  – 4-5 homework assignments and quizzes

• Midterm exam (30%)
  – In class, open book, open notes, calculators permitted

• Final exam (30%)
  – In class, open book, open notes, calculators permitted
  – Have to get at least 50% of the grade on the final and midterm to pass the course.
Class Policies

• Students caught engaging in an academically dishonest practice will receive an F for the course.

• University policy on academic dishonesty will be followed strictly.
  – http://www1.umn.edu/oscai/

• 3 days of grace period for homework submission (3 days for the whole semester)

• No extra work will be accepted for improving the final grade

• More policies on the syllabus (pdf)
A Simple “Computer”

Pull-up resistor needed?

http://media.digikey.com/photos/Lumex%20Photos/SSA-LXH1025GD.jpg

http://www.doc.ic.ac.uk/~ih/doc/nxt-i2c/voti_switches_big.jpg
and w5, w4, w4
mov #0x9FFF, w4
mov w4, PORTB

Fig from the PIC24FJ64GA004 manual