About this class....

The Goal: equip students to competently design embedded microcontroller systems

This is a design course. As such you will need to:
- use considerable creativity, resourcefulness and persistence
- read long datasheets
- improvise around problems
- extract information from obscure sources
- apply material from courses you have already taken
- find solutions on your own from incomplete specifications

I will be treating you like “real” engineers. I expect you to perform like “real” engineers.
About this class....

You will read and reread prodigiously. This is typical for doing real design work.

Labs will not have step-by-step instructions. Think ahead.

Labs vary in difficulty and will be weighted accordingly. Expect anywhere from 3 hours on the first lab to 30+ hours on the final lab.

A complete design consists of: C code, schematic diagrams, and documentation.

Lab: the place where we get together as a smaller group and get stuff working.

Come to lab prepared to work.
- finished, detailed design with schematics,
- datasheets,
- parts
About this class....

Work in groups on homework and projects if you wish.
  - Share design approaches, philosophy, coding ideas
  - Don't copy code

We will have a ~weekly quiz over reading and work done in lab.

Bulk of your grade comes from the projects.

Write code with a programming editor.
  - Commit to learn vi. (vim)
  - You will probably do a lot of programming in your career.
  - Don't be a notepad weenie.