Your final lab of the semester is to build a circuit of your own design. You should choose to build something that you would be interested in, or that might even be useful or fun to you. You will research a design, build the circuit, and do an oral presentation to the class on your circuit. The presentation of the circuit should be through your web page. The dates below are last possible dates, hopefully you will complete some steps in advance.

- Come up with an idea and/or find a design.** Make a precise list of parts that are needed.
- Tues 4/8: Have design approved (5 points) and supply me with parts list (5 points).
- Tues 4/15: Progress check: must have prototype partially built on breadboard (20 points).
- Mon 4/21: Show the circuit works on the breadboard (20 points).
- Solder final design on a circuit board.
- Tues 4/22: Show the soldered circuit works (10 points). Write up a description of the circuit and carefully describe how it works as a lab report on the web (20 points). Oral presentation in class (20 points).

** Deciding on a circuit: I will not approve something completely trivial; I expect it to be somewhat involved with numerous components. You may make your own design; but be sure to search the Web, or perhaps books (I have some books if you want to look). Even if your idea is completely unique, you should be able to find someone else who made the same thing; that could be useful in order to get some suggestions. Some good websites for circuits:

- [http://www.coolcircuit.com/a-circuit.html](http://www.coolcircuit.com/a-circuit.html)