I. Purpose
   A. Learn how to find material on the Web.
   B. Learn how to solder.

II. Specifications
   A. Option 1: Find a kit of an interesting project. BUY THE KIT YOURSELF.
      1. Battery operated.
      2. No cost limit.
   
   B. Option 2: The EE Department buys the parts, but you are limited to ONE of these projects:
      1. LED chaser
      2. Ultrasonic mosquito repeller
      3. Touch switch
      4. 1- to 10-minute adjustable timer
      5. Random flasher
      6. Metronome

III. Pre-laboratory analysis
   A. Project selection:
      Either
      1. Search the Web for a project that you think will be interesting and which meets the above specifications.
      2. All final projects **must** be approved by the instructor!!
   or
      1. Select one of the kits provided by the EE Department:
         a) Read the handout describing the kits (under Final Project in D2L).
         b) Watch the videos (under Final Project in D2L) showing the kits.
         c) Select a kit for your final project.
      
   B. Obtaining components
      1. If you selected Option I above:
         a) Order the kit immediately.
         b) Inform the instructor when the order has been placed (by email).
         c) Inform the instructor when the kit is received (by email).
      2. If you selected Option II above:
      3. The EE Department will provide the components.
C. Write a project proposal (in informal report) including the following sections:
   1. A description of the project you selected.
   2. Schematic of the circuit diagram.
   3. List of the parts (using the sheet posted on D2L).
   4. If your project uses any IC chip, transistors, or diodes, a datasheet that shows the pin configurations must be included as attachments.

IV. Laboratory procedure
   A. Construct your project on the circuit board. (It MUST be soldered together.)
   B. Test your project to confirm that it is working.
   C. Demonstrate your project to the instructor.

V. Report requirements
   A. No written report is required for this project.

VI. Project schedule and grading (See D2L)