

- 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)