



**Name:** \_\_\_\_\_

**Grader:** \_\_\_\_\_

(date)

**Complete by:**

Wednesday October 14 for an A+  
Friday October 16 for an A  
Friday October 23 for an L  
Later than this for an X

**References:**

Schematic  
Parts list  
Stuffing order suggestion  
Marked up artwork with resistor color coding  
DevPV.c      Performance Verification code

**Overview**

Each person in the class (not each team) is to build his/her own board, check it out for the quality of the solder connections and cleanup with a TA and then demonstrate their Performance Verification code execution for the TA.

Copy the DevPV.c file to

DPpartAPV.c

and add to it the display of your name, centered on the bottom row of the display. To understand how to do this, consider the header of the DisplayC function in the DevelPV.c program:

```
/*  
 * DisplayC(const char *)  
 *  
 * This subroutine is called with a parameter consisting of the name of a  
 * constant display string stored in program memory. The format of the  
 * constant string is:  
 *    Cursor-position code (CPC)  
 *    Displayable characters  
 *    A null character (0x00) to terminate the string  
 * The cursor-position code identifies the location to be used by the  
 * first displayable character.  
 * For the top row of the 24x2 LCD, the CPC's are 0x80, 0x81, ..., 0x97  
 * For the second row of the 24x2 LCD, the CPC's are 0xC0, 0xC1, ..., 0D7  
 *  
 */
```

For use by this function, you will create a “constant display string” named MyNameStr and consisting of your name preceded by an appropriate cursor-position code and followed by a null character.

**Checkout:**

- [ ] Soldering quality and board cleanup looks good.
- [ ] Your name is centered on the second line of the display and the LED blinks.
- [ ] With the LED turned off and with the LCD cable detached from your board, run your code and check the average current draw of the board. It should be about 40  $\mu$ A.

The current draw is measured to be \_\_\_\_\_  $\mu$ A

**Submission:**

When completed, turn in this sheet and your file in a folder with your name on the tab.