

CpE301 - Design Assignment 5

DUE: See Website

Design Assignment 5

The goal of the assignment is to develop the above code to do the following:

1. Interface the provided SPI OLED to the ATmega328p using the SPI interface. Using the earlier developed code for ADC, display the ADC value of the internal temperature sensor, or LM35 sensor to the OLED display.

Submission:

The following are required for successful completion of the design assignment:

- a. AVR C code that has been compiled and working.
- b. The C code should be well documented with explanation of every instruction.
- c. A word document that contains the flow chart of the assembly code along with the snapshots of the schematics, components connected on the breadboard and screenshots.
- d. Specify your assignment partner's name on the submission doc.

Points:

Task 1: 100%. (Code=60%, Documentation=20%, Verification/Snapshots=20%)

Evaluation Rubrics:

See class website for the DA evaluation rubrics.