Final Project

CISC 071

By

<Your Name>

Date: <mm/dd/yyyy>

Purpose

* To submit your Final Project (50 Points)
* Use the skills you learnt to build a project

Rubric

* Correctness: 10 Points. Project should work as you have defined it
* Complexity: 10 Points. Use all of the following (or more):
  + 2 sensors
  + 2 resistor
  + 1 capacitor
  + 1 Speaker
  + 1 Motor
  + 2 LEDs
  + LCD (display some value from your program on to the LCD)
  + EEPROM (use the built in EEPROM to store some value used in your program)
* Control Complexity: 10 Points: Use any two of the following control techniques:
  + PWM
  + H-Bridge
  + I2C
* Creativity: 10 Points. Project has some new idea (10) or is it a copy (0). You can add on to your Mid Term Project.
* Code: 10 Points. The program has to be cleanly written with clear comments and descriptions of various steps. The code should have the following constructs:
  + For loops
  + If else statement AND/OR Switch Case statement
  + Use of at least 2 functions (that you define)
  + Arrays
  + Use of at least 1 Arduino library

Project Description

Describe in detail what your project is supposed to do.

Example:

This project will turn the lights on and off in a room based on how dark it is outside.

When …..

Components

Put a list of ALL the components used in your project

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Index # | Description | Part Number | Value | Count | Comments |
| 1 | Temperature Sensor | TMP36 | N/A | 1 | To sense room temperature |
| 2 | Resistor | N/A | 220 Ohm | 3 |  |
|  |  |  |  |  |  |

Circuit

Put your circuit diagram here

You can draw, scan and import a picture here.

Or you can use circuits.io to print an image of your circuit.

Or you can use fritzing.org to draw your circuit. << Preferred

Project

As a minimum make a picture of your project and paste it here.

If you want to make a video of your project in action then you can upload it to youTube and put a link here. << Preferred

Program Code

///////////////////////////////////////////

// Program Name: <Put name here>

// Program Version: 1.0

// Author: <Put your name here>

// Date: <Put date here>

// Inputs to Program: <List any inputs>

// Outputs from Program: <List any outputs>

//////////////////////////////////////////

void setup() {

}

void loop() {

}

Program Input/Output

From Serial Monitor (if any)

Example

potVal : 1023, angle : 179

potVal : 1023, angle : 179

or From LCD Monitor (if any)

Put a picture