Embedded Systems Lab Demonstration Validation Sheet

This sheet should be modified by the student to reflect the current lab assignment being demonstrated

|  |  |
| --- | --- |
| Lab Number: | Lab 5 – ADC and H Files |
| Team Members | |  | | --- | | Team Member 1: | | Team Member 2: | |
| Date: |  |

# Lab Demonstration Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| REQ Number | Objective | Self-Review | TA  Review |
| 1 | Team name and ADC Test is displayed |  |  |
| 2 | SW1 reads the correct ADC value from channel 2 |  |  |
| 3 | SW2 reads the correct ADC value from a user defined channel |  |  |
| 4 | SW3 reads from a different user channel , compares the voltage from the first user channel and displays HIGH, LOW, or EQUAL |  |  |

# Code Requirements (will not be graded during lab demo)

|  |  |  |  |
| --- | --- | --- | --- |
| REQ Number | Objective | Self-Review | TA  Review |
| 1 | customADC.h and customADC.c should be constructed as specified in the handout. All functions must follow the specified argument and return types and include all functions specified. You may write additional functions for your library, but they must follow standard C coding practices, including capitalization, indentation, and commenting. |  |  |
| 2 | adcInit()must be written as specified by the lab handout and follow the given steps. |  |  |
| 3 | adcRead() must be written as specified by the lab handout and follow the given steps. |  |  |
| 4 | convertADC()must be written as specified by the lab handout. |  |  |
| 5 | All code must be commented and indented properly. |  |  |