Software Details:

Function Modification:

1. ProcessIO() – defined in maindemo.c

This defines the reading the sensor input and deciding on the output.

1. HTTPADCPostTask() – in HTTPADCpost.c

The destination ip address and php script location was modified. The data being sent was stored in “buff” variable which is defined and modified in maindemo.c in procession() function

1. HTTPPostTask() was removed from HTTPPost.c
2. DisplayIPValue()- defined in maindemo.c

Was removed and the statement call was also removed from the while loop

New Functions Added:

1. ReadADCData() – defined in maindemo.c

Reads the ADC value from the selected channel.

1. Convert() – defined in maindemo.c

Trims the leading 6 bits and then converts the value to float.

1. SelectChannel() – defined in maindemo.c

Does the task of selecting the channel being selected for reading ADC value

1. ADCInit() – defined in maindemo.c

Initializes the ADC channel

Setting:

1. Sampling initiated manually
2. Auto complete at 31Tad
3. TCPRecvTask() – defined in HTTPPost.c

Opens up a TCP server at port 1234 and listens to it. This is implemented to implement the web control feature

Hardware:

1. Certain pins have stopped functioning:
   1. RG12
   2. RG13
   3. RF1
2. ULN2803 had stopped functioning and was replaced
3. Hardware PIN usage details:
   1. INPUT details

Input is all configured on J1

* + 1. Pin2 – input for PIR
    2. PIN3 – input for REED-1
    3. PIN4 – input for REED-2
    4. PIN5 – input for LM35
  1. Output details:

Outputs are configured on the GPIO port J11

* + 1. PIN 3 – output for PIR
    2. PIN 4 – output for REED 1
    3. PIN 5 – output for REED 2