

- 1- find average value of 2 analog inputs (measured1 & measured2), you may use voltage divider circuit for each analog input.
- 2- find the error between the average and the desired value (desired value is another analog input).
- 3- if the error  $< 1$ , then turn on 2 green LEDs and display "Acceptable Error 1" on the LCD.
- 4- if the  $1 \leq \text{error} \leq 2$ , then turn on 2 yellow LEDs and display "Acceptable Error 2" on the LCD.
- 5- Else, turn on 2 red LEDs and display "Severe Error" on the LCD, and turn on a motor using a generated PWM signal (with Freq = 10Khz, Duty Cycle = 50%).