Lab 3 grading sheet 1) Name Last	First	EID	Circle professor AC, RY, JV
2) Name Last	First	EID	AC, RY, JV
Use same spelling as listed on Canvas			
1. Deliverables 20%:			
0) This sheet			
Combine the following compone			Canvas before your checkout
time. Have this file open on the c	1 0		
1) Circuit diagram (hand-drawn or optionally using PCB Artist)			
2) Screenshot like showing your debugging in the simulator			
3) Switch measurements (Table 3.1)			
4) LED measurement			
5) Assembly source c	• 1	orogram	
You must commit your softwo			
2. Performance 35% (10% OFF for NO Breathing):			
Does it handle correctly al	l situations as spec	cified?	
3. Adhere to coding standard	5%		
Good Names have mea	ning		
Variables have units in	comments		
Consistent indentation			
Consistent style			
		1)	2)
4. Demonstration 40%:			

You will show the TA your program operation on the actual TM4C123 board. The TA may look at your data and expect you to understand how the data was collected and how the switch and LEDs work. Also be prepared to explain how your software works and to discuss other ways the problem could have been solved. What is the purpose of the 10k resistor on the switch interface? Why the ULN2003 was used to interface the LED? i.e., why did we not connect the LED directly to the TM4C123? What would the flashing LED "look" like if the frequency was 1Hz? Why did your calculations change between the simulator and the real board? What operating point (voltage, current) exists when the LED is on? Sketch the approximate current versus voltage curve of the LED. Explain how you use the 220 ohm resistor value to select the operating point of the LED. What is the difference between a positive logic and negative logic interface for the switch or the LED? We may test to see if you can measure voltage, current and/or resistance with your meter (so bring your meter to the demonstration).

Total:

