Lab 5 grading sheet			Circle professor
1) Name Last	First	EID	_JV, AC, RY

2) Name Last	First	EID	JV, AC, RY
Use same spelling as listed on Blackboard			

1. All source files that you have changed or added (like main.c) should be committed to Git.

- 2. Deliverables 20%:
 - 0) This sheet

Combine the following components in this order into one pdf file and commit it to Lab5 folder in Git before your checkout time. Have this file open on the computer during demonstration.

- 1) Circuit diagram hand-drawn or electronic
- 2) Logic analyzer screenshot while in simulation mode, when the button is pressed and released.

1)

- 3) Drawing of the finite state machine
- 3. Performance 35%:

Does it handle correctly all situations as specified?

4. Adhere to coding standard 5%

Good Names have meaning Variables have units in comments Consistent indentation Consistent use of braces C99 style

2)

5. Demonstration 40%:

During checkout, you will be asked to show both the simulated and actual TM4C123 systems to the TA. The TAs will expect you to know how the **SysTick_Wait** function works, and know how to add more input signals and/or output signals. An interesting question that may be asked during checkout is how you could experimentally prove your system works. In other words, what data should be collected and how would you collect it? If there were a lawsuit, could you theoretically prove to the judge and jury that your software implements the FSM? What type of FSM do you have? What other types are there? How many states does it have? In general, how many next-state arrows are there? Explain how the linked data structure is used to implement the FSM. Explain the mathematical equation used to calculate the address of the next state, depending on the current state and the input (if this were assembly). Explain the assembly code created by the compiler for the main loop implementing the FSM, how are the data in the struct accessed? List some general qualities that would characterize a good FSM. If the motor does not spin, how could you tell if it is a circuit problem, a software problem or mechanical problem?

Total:

