## THE UNIVERSITY OF TOLEDO EECS 3100 – Embedded Systems

## Lab Project #7 Grading Chart

PROJECT #7	Team Member 1 Name:	Team Member 2 Name:		
Lab Section No:	Grader's Name:	Lab Instructor's Name:		
		Grader's Evaluation Comments	Max Points Achievable	Points Earned
PROCEDURES		Grader's Evaluation Comments		
Code			30	
Code correctly reads the	three inputs for the system.			
Code correctly outputs to	o the 8 LEDs.			
Code properly configure	s the PLL.			
Code properly configure	s the Systick Timers.			
There is 1-1 mapping be	tween the FSM data structure and the state graph.			
	branches (do-while, while-loop, if-then, or for-loops), and in SysTick_Wait10ms.			
Functionality to impleme	nt "2 Second Walk" Button Timing is in the code.			
Testing			20	
Logic analyzer screensh roads.	ot while in simulation mode, when cars are present on both			

Walk Behavior		
The green LED is turned on when pedestrians are allowed to cross.		
System accounts for pedestrian pressing and releasing button after 2 seconds.		
System eventually processes walk request.		
The walk sequence should be realistic, showing three separate conditions:		
MATERIAL STATE OF THE STATE OF		
Walk: Walk light should be on signifying the pedestrians may cross.		
Warning: The "don't walk" LED flashes signifying that pedestrians need to		
hurry.		
Don't Walk: The "don't walk" LED should be on and constant.		
Bont Want The don't want EEB dileate be diffant constant.		
Don't Walk Behavior		
The "don't walk" LED flashes when the two traffic signals are red.		
The dank mank and months the trained digitals are real.		
The "don't walk" LED is steadily on, while traffic signals process non-		
pedestrian traffic.		
Traffic Behavior		
The traffic signals should facilitate traffic flow only when there are no pending		
pedestrian requests.		
The traffic signals behave according to expected patterns, including transitioning between stop, warning, and go states.		
transitioning between stop, warning, and go states.		
There is a delay on the warning (yellow) states.		
Traffic in one direction is not in go state until traffic in other direction is in stop state.		

Design	15	
Circuit diagram (with Student's name and date) is correct.		
All elements in circuit diagram appropriately labeled.		
Circuit diagram has three inputs (buttons).		
Circuit diagram has 8 outputs (LEDs).		
State count for the Moore FSM is compliant with the requirements.		
Moore FSM accounts for all possible transitions.		
Finite state machine drawing properly models the problem.		
FSM accounts for and does not allow accidents.		
REPORT	15	
REPORT  Professionalism of the report – correct spelling, grammar, coherence, organization and presentation	15	
Professionalism of the report – correct spelling, grammar, coherence, organization and presentation  Report is computer-generated: 8.5x11 paper & one side used	15	
Professionalism of the report – correct spelling, grammar, coherence, organization and presentation  Report is computer-generated: 8.5x11 paper & one side used  Cover sheet – Include Course Name, Lab Section, Submission Date, Team Member Names, and a Table of Contents.	15	
Professionalism of the report – correct spelling, grammar, coherence, organization and presentation  Report is computer-generated: 8.5x11 paper & one side used  Cover sheet – Include Course Name, Lab Section, Submission Date, Team Member Names, and a Table of Contents.  Project Progress – Discuss the degree of completeness of your project for each part in the section "Procedures". If any part is incomplete, state what has been and what needs to be accomplished.	15	
Professionalism of the report – correct spelling, grammar, coherence, organization and presentation  Report is computer-generated: 8.5x11 paper & one side used  Cover sheet – Include Course Name, Lab Section, Submission Date, Team Member Names, and a Table of Contents.  Project Progress – Discuss the degree of completeness of your project for each part in the section "Procedures". If any part is incomplete, state what has been	15	
Professionalism of the report – correct spelling, grammar, coherence, organization and presentation  Report is computer-generated: 8.5x11 paper & one side used  Cover sheet – Include Course Name, Lab Section, Submission Date, Team Member Names, and a Table of Contents.  Project Progress – Discuss the degree of completeness of your project for each part in the section "Procedures". If any part is incomplete, state what has been and what needs to be accomplished.  Team Member Contributions – Discuss in detail each team member's	15	

TEAM POINTS SCOR					S SCORED	)
DEMONSTRATION EVALUATION					20	Points Scored
Demonstration Score Team Member 1 (out of 20)						Scored
Demonstration Score Team Member 2 (out of 20)						
Team Member 1 Interim Scor				Interim Sco	re:	
Team Points + Individual Demo Points =			Team Points + Individual Demo Points =			
		Individual grades may be reduced up to 100% of the team grade (resulting for a score of zero) for those team member(s) who failed to contribute their fair share to each and every phase/task/subtask of the				
		roject.	(S) WITO TAIR	ed to continuite their rail strate to each and every phase/tasivsdutasiv	or trie	
Team member contributions described in adequate detail i		Comment below for each team member if his/her grade is being adjusted due to less than fair and				Adjustment
		equitable share of contributions for parts of the project. Then enter the adjustment value in points from 1 to a maximum of "Team Points Scored".			ils irom i	Value (in points)
Team Member 1						
Detailed assessment for contributions						
Team Member 2						
Detailed assessment for contributions						
LATE SUBMISSION DEDUCTION						
Number of Days Late: × 20 pts per day = (Subtract 20 points for each day late)	Points (dedu	uction for late	e submiss	ion)		
Team Member 1 Name:		Fina   Proj	alized iect	Team Member 2		Finalized Project
		Sco		Name:		Score:
(Team Points + Individual Demo Points) – (Individual Contribution Adjustment + Late Submission Deduction) =				(Team Points + Individual Demo Points) - (Individual Contribution A	djustment +	
				Late Submission Deduction) =		