ECE 3544: Digital Design I Project 3 (Part B): Design and Synthesis of a Synchronous Finite State Machine

Student Name:	Jacob Abel
Honor Code Pledge:	I have neither given nor received unauthorized assistance on this assignment.
Grading: The design project will be graded on a 100 point basis, as shown below:	
Manner of Presentation (30 points)	
Comp	pleted cover sheet included with report (5 points)
_	nization: Clear, concise presentation of content; Use of appropriate, well-organized ons (15 points)
Mech	anics: Spelling and grammar (10 points)
Technical Merit (70 points)	
	ral discussion: Did you describe the objectives in your own words? Did you discuss your conclusions and the lessons you learned from the assignment? (5 points)
	machines: Does your state diagram for the keypressed module correctly represent its vior? Did you address the questions on structuring state machines in Verilog? (10 points)
•	ementation discussion: <i>Did you discuss the approach you took to modifying the counter</i> (5 points)
	ng discussion: What was your approach to formulating your test benches? How did you the correctness of the modules you designed? (5 points)
Supp	orting figures: Waveforms showing correct operation of the top-level module. (10 points)
	orting files: Do the modules pass any tests applied by the grading staff? Modules that do onform to the requirements of the project specification will receive no credit. (10 points)
Valida	ation of the final design on the DE1-SOC board (25 points)
Droic	ort Crado