

ECE 3544: Digital Design I

Project 1 (Part B): Simulation in the ModelSim Environment; Continuous Assignment Models

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)

_____ Completed cover sheet included with report (5 points)

_____ Organization: Clear, concise presentation of content; Use of appropriate, well-organized sections (15 points)

_____ Mechanics: Spelling and grammar (10 points)

Technical Merit (70 points)

_____ General discussion: *Did you describe the objectives in your own words? Did you address the questions posed in the project specification? Did you discuss your conclusions and the lessons you learned from the assignment?* (10 points)

_____ Design discussion: *What was your approach to deriving the circuit you had to design? How does the design process that resulted in your continuous assignment model compare to the one you used to obtain a structural model that used primitive gates? How applicable is the design process you followed in this assignment to larger and more general designs?* (10 points)

_____ Testing discussion: *What was your approach to formulating your test benches, and how did you verify the correctness of your design and implementation?* (10 points)

_____ Supporting figures (20 points total)

- Correct waveforms showing simulation of both decoder modules. (5 points)
- Correct waveforms showing correct operation of your design. (15 points)

_____ Supporting files: *Do the submitted files produce the correct response?* (20 points)

_____ **Project Grade**