Lab 4 Rubric

Activity: Lab 4) Prototype Model Phase 2

Course: ECE 298 - Spring 2021

Name: Kevin Sisjayawan

Schematic	Yes 3 points	Mostly 2 points	Marginally 1 point	No 0 points	Criterion Score
1) All generic components replaced with real components that have part numbers and footprints					3 / 3
2) All IC power pins have been set to correct rails (i.e., VCC/VDD replaced with {+12.0V, +5.0V, +3.3V}, VEE/VSS connections replaced with GND)					3 / 3
3) Off-board components have been replaced with appropriate connectors					3 / 3
4) All Schematic power-entry pins have bulk capacitors, and all IC power pins also have decoupling capacitors					3 / 3
5) Every net is named and belongs to the correct net class (No DEFAULT net class)					3 / 3
6) All power rails and important signals have test points					3 / 3
7) Single-pin nets have been eliminated using No Connect terminations (NRST pin exempt)					3 / 3
Circuits are electrically correct					3 / 3
Reference Designators follow correct conventions, with descriptions as separate schematic or silkscreen elements (e.g., "U2" and not "ADC")					3 / 3

PCB	Yes 3 points	Mostly 2 points	Marginally 1 point	No 0 points	Criterion Score
All components are properly placed (bulk and decoupling caps close to IC power pins, connectors in accessible locations, etc.)					3 / 3
All nets are completely and neatly routed					3 / 3
Test points are appropriately located and have descriptive silkscreen for important signals ("GND", "SCLK", etc.)					2/3

9/3/2021		Feedback for Lab 4) Prototype Model Phase	se 2 - ECE 298 - Spring 2021 - University of	Waterloo				
PCB	Yes 3 points	Mostly 2 points	Margi 1 poin		No 0 points	Criterion Score		
Criterion Feedback								
TP on the bottom can't be accessed Silkscreen text is present, of adequate size, and not on pads, vias, holes, or too close to the board edge						2/3		
Criterion Feedback overlapping vias and pads								
Additional Criteria		Yes 2 points		No 0 points		Criterion Score		
Netlist Report present						2 / 2		
The PCB form factor and Morpho connectors (CN7, CN10) have not been moved or altered						2 / 2		
Pick and Place File is present						2 / 2		
Bill of Materials (BOM) is present						2/2		
3D Visualizer views for the top and bottom assemblies are present						2/2		
Pre-Production Check export is present and passes with no errors, failures, or warnings						2/2		
Gerber files and READ-ME are present and include Copper, Silk, Resist, and Paste for Top and Bottom layers, and Drill layer						2/2		
Total 51 / 53								
Overall Score								
	Meets 42 points minimum		Marginal 32 points minimum		Below 0 points m	Below O points minimum		