**EE 3140- Spring 2021**

**Final PCB Design**

**Grading Rubric/Grade Worksheet**

**Project: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Grader: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Assigned Grade** | **Max Points** | **Item** | **Description** |
|  | **10** | **Size** | Is the PCB size appropriate to the project /component count?  If the PCB is used with a microcontroller, does it plug into the development board? |
|  | **10** | **Design Rules** | Are the trace widths 16 mil or greater?  Is the trace width appropriate for the current?  Is there 1/32 inch or greater clearance between the traces and the other features?  Are traces too close to other traces?  Are the Holes and Vias at least 16 mil?  If One-Sided – are the components placed on the top side and the traces on the bottom side?  Could the PCB have been one-sided? |
|  | **30** | **Soldering** | Are the parts soldered correctly?  Is the PCB burned from too much heat? |
|  | **30** | **Connectors** | No parts should be wired directly to the PCB.  Did you use appropriate connectors?  Did you add test points to the PCB to troubleshoot and show important signals during the presentation?  Did you add holes to the PCB to mount it to your project using stand-offs? |
|  | **20** | **Correct parts/footprints** | Do all your parts fit into the PCB correctly?  Did you use the correct parts from your schematic for the final PCB? |
|  | **100** | **Final Grade** |  |

Comments: