

## AME 20216 – Score Sheet

A8 – Microcontrollers

NDID#: \_\_\_\_\_

For more details on any of the items below, please refer to the lab handout.

The following items will be *demonstrated* to the lab instructor during the allotted lab time. Credit will not be given for portions completed outside of lab.

Item and Description	Points Awarded	Possible Points
<b>Part I: Potentiometer</b> Turning the potentiometer correctly adjusts the brightness of the LED. The PWM signal is visible on the oscilloscope.		4
<b>Part II: Temperature Measurement</b> The thermistor is correctly wired up in a voltage circuit. The correct temperature is displayed in the Arduino serial monitor.		4
<b>Part III: LED Indicators</b> The Red LED lights up when the $T > 302K$ . The Green LED lights up when the $T < 302K$ .		4
<b>Part IV: Design Challenge</b> The threshold temperature is adjustable with potentiometer. The threshold and measured temperatures are printed to the serial monitor.		2
<b>Clean-up</b> The students returned the lab bench to its initial state.		2
<b>TOTAL</b>		16