

Lab report 1 (rubric)

Lab part 1 (no experiment)

Lab part 2 (Wheatstone bridge)

1. Analysis about wheatstone bridge. What did you understand about it's purpose from pre-lab and lab? **(1.5 points)**
2. Error analysis, error between $(R_4)_{\text{prelab}}$ and $(R_4)_{\text{lab}}$, what contributed to this error according to you? **(2.5 points)**

Lab part 3 (Loading effect)

1. Your understanding about the difference between the three circuits (Figures 2, 3, 4) **(1.5 points)**
2. Error analysis, $v_1, v_1', v_1'', i', i'', v_2', v_2''$ **(2.5 points)**

Lab part 4 (Dimmer circuit)

1. Plot F versus i_{LED} from the values you obtained in the lab. Compare this plot with the pre-lab plot. Analyse both the graphs and report your understanding about the circuit **(3 points)**