

AME 40453 – Tech Memo Score Sheet

C6 – Inverted Pendulum

NDID#: _____

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

Please include a horizontal line denoting the set-point angle for the relevant plots listed below.

| Item and Description | Points Awarded | Possible Points |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|
| Technical writing – Using the correct format, address all questions from the lab handout, and include equations from the pre-lab. | | 5 |
| A table containing the system parameters: m, R, λ, ω_d, the LQR feedback gains k_p and k_d, and the weight R used to limit actuation. | | 5 |
| A plot of the angle vs. time for some of your tests of the open loop controller from Part III. | | 5 |
| A plot of the angle vs. time for some of your tests of the LQR controller from Part IV. | | 5 |
| TOTAL | | 20 |