AME 30358 – Score Sheet

M3 – Servo Motors

Student Name(s):_____

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
Part I: Testing the Servo The servo spins to a location dictated by the pulse width generated by the function generator.		3
Part II: Microcontroller Implementation The student wrote down the mapping between pulse width and angle in lab notebook. The servo move correctly via the Arduino code.		3
Part III: Design Challenge 1 Turning the potentiometer knob causes the servo to rotate.		4
Part IV: Ultrasonic Rangefinder The correct distances and angles are printed to the serial monitor.		3
Part V: Pneumatic Missile Launcher The Arduino prints the 10 sec countdown to the serial monitor, then fires the foam rocket.		4
Part VI: Design Challenge 2 The turret locates the nearby target and strikes it with the foam rocket.		5
Clean-up The students returned the lab bench to its initial state.		2
TOTAL		24