

AME 30358 – Score Sheet

M10 – RC Race Cars

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
Subsystem A: Electrical Powertrain The motors, battery, fuses, remote kill switch, and RC receiver are all correctly connected to the Cytron motor driver board. The remote control can be used to turn the motors.		5
Subsystem B: Chassis and Vehicle Structure The chassis, motor mounts, motors, wheels, etc. are all securely mounted.		3
Subsystem C: Remote Controls and HMI The student is able to drive the vehicle around the lab in a slow and controlled fashion.		3
Design Challenge The student is able to drive the vehicle 2 laps around the race track (~1040 ft. total) in under 6 minutes.		5
Race Performance 2 points if the car was faster than the average time completing 2 laps around the track. 0 points if it was below average.		2
Clean-up The vehicle was completely disassembled and all parts were put away in their appropriate locations. The students returned the lab bench to its initial state.		2
TOTAL		20