## AME 30358 - Score Sheet

M7 – Remote Control Systems

lame(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: Brushless Motor The brushless motor spins at a speed proportional to the pulse width.		5
Part II: Remote Control  The mapping of the controls-to-channels is correctly written in the lab notebook.  The brushless motor and servo are controlled by the joystick(s) on the transmitter.		5
Design Challenge 1 – Flight Control System The brushless motor and servos are correctly laid out on the printed airplane drawing. The joysticks control the correct actuators:  • Left joystick up-down - Motor speed • Left joystick side-to-side - Rudder flap		4
<ul> <li>Right joystick up-down - Elevator flaps</li> <li>Right joystick side-to-side - Aileron flaps</li> </ul>		
Design Challenge 2 – 2-Axis Pan and Tilt  The two servos are mounted correctly.  The student is able to control the angular orientation of the system via the remote control.		6
Clean-up The students returned the lab bench to its initial state.		2
TOTAL		22