

Mission 6 Assignment Log	Name:															
Pre-Mission Preparation																
<p>This mission uses a servo to power a fan. Servos are small motors that can power wheels, fans, pumps, and more. What are some devices that might use a servo, and what do they power?</p>																
Mission 6 Checks																
<p>Objective #1 How do you make the servo go?</p>																
<p>Objective #2 Fill out the chart for the 360 servo:</p>	<table border="1"> <thead> <tr> <th data-bbox="824 829 1063 892">Percent of CYCLE</th> <th data-bbox="1063 829 1169 892">Speed</th> <th data-bbox="1169 829 1469 892">Rotation</th> </tr> </thead> <tbody> <tr> <td data-bbox="824 892 1063 955"></td> <td data-bbox="1063 892 1169 955">50%</td> <td data-bbox="1169 892 1469 955"></td> </tr> <tr> <td data-bbox="824 955 1063 1018"></td> <td data-bbox="1063 955 1169 1018">0%</td> <td data-bbox="1169 955 1469 1018"></td> </tr> <tr> <td data-bbox="824 1018 1063 1081"></td> <td data-bbox="1063 1018 1169 1081">50%</td> <td data-bbox="1169 1018 1469 1081"></td> </tr> </tbody> </table>		Percent of CYCLE	Speed	Rotation		50%			0%			50%			
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<p>Objective #3 Two constants are defined for the switch. What are their values?</p> <p>What is the purpose of // ?</p> <p>For practice, evaluate the expressions:</p>	<table border="1"> <tbody> <tr> <td data-bbox="824 1171 1104 1234">POWER_ON</td> <td data-bbox="1104 1171 1469 1234"></td> </tr> <tr> <td data-bbox="824 1234 1104 1297">POWER_OFF</td> <td data-bbox="1104 1234 1469 1297"></td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td data-bbox="824 1486 1112 1549">15 // 5</td> <td data-bbox="1112 1486 1469 1549"></td> </tr> <tr> <td data-bbox="824 1549 1112 1612">16 // 5</td> <td data-bbox="1112 1549 1469 1612"></td> </tr> <tr> <td data-bbox="824 1612 1112 1675">17 // 5</td> <td data-bbox="1112 1612 1469 1675"></td> </tr> <tr> <td data-bbox="824 1675 1112 1738">10 // 4</td> <td data-bbox="1112 1675 1469 1738"></td> </tr> <tr> <td data-bbox="824 1738 1112 1801">2 // 3</td> <td data-bbox="1112 1738 1469 1801"></td> </tr> </tbody> </table>		POWER_ON		POWER_OFF		15 // 5		16 // 5		17 // 5		10 // 4		2 // 3	
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<p>Objective #4 Explain what a finite-state machine is:</p>	
<p>Explain why you define constants for FORWARD and STOP:</p>	
Post-Mission Reflection	
<p>You learned about 360 degree servos during this mission. What are some uses for this servo?</p>	
<p>What is something you enjoyed about this mission? Why?</p>	