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| **Mission 6 Assignment Log** | **Name:** |
| **Pre-Mission Preparation** | |
| 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? |  |
| **Mission 6 Checks** | |
| Objective #1  How do you make the servo go? |  |
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| Objective #2  Fill out the chart for the 360 servo: | |  |  |  | | --- | --- | --- | | Percent of CYCLE | Speed | Rotation | |  | 50% |  | |  | 0% |  | |  | 50% |  | |
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| Objective #3  Two constants are defined for the switch. What are their values?  What is the purpose of // ?  For practice, evaluate the expressions: | |  |  | | --- | --- | | POWER\_ON |  | | POWER\_OFF |  | |
|  |
| |  |  | | --- | --- | | 15 // 5 |  | | 16 // 5 |  | | 17 // 5 |  | | 10 // 4 |  | | 2 // 3 |  | |
| Objective #4  Explain what a finite-state machine is:  Explain why you define constants for FORWARD and STOP: |  |
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| **Post-Mission Reflection** | |
| You learned about 360 degree servos during this mission. What are some uses for this servo? |  |
| What is something you enjoyed about this mission? Why? |  |