

Names:

Period: _____

Advanced Robotics

Midwood High School

Motors and Timing Tasks

Directions: Make your robot perform the following tasks *in order* and show each task to Reilly to get it initialed. Each person in the group must create two programs.

Programmer 1: _____

1. _____ Go forward for four seconds, stop for two seconds, go backwards for four seconds, and stop.
2. _____ Go forward for three seconds, do a 90° turn to the left at power level 4, stop for two seconds, go forward for 1.5 seconds, float stop.

Programmer 2: _____

3. _____ Spin clockwise in place for 3 seconds, pause for 1 second, spin counterclockwise for 3 seconds, turn the lamp on, go forward for 2 seconds and stop.
4. _____ Go reverse at minimum power for 2.5 seconds, turn 90° to the right at full power, go forwards at power 4 for 2 seconds, make a 90° left turn at full power, then go forward for 2.5 seconds.

Programmer 3: _____

5. _____ Make your robot trace the shape of a capital N that is about 1 foot tall.
6. _____ Trace a square path that has a side about 1.5 feet long.

Extra Credit:

7. _____ Go reverse for two seconds, do a 180° turn, stop, make the lamp blink on and off three times, go forward for two seconds.
8. _____ Follow a circular path that has a diameter of about 2 feet.