Data Hubs: Robot Throttle Challenge

Robot Throttle Challenge
In this challenge, you must program a "throttle" to allow smooth control of the robot's speed.

Things You Need to Design:
- Robot throttle made from an NXT Smart Motor (similar to sample design shown below)
- **HINT:** Use the Rotation Sensor built into the motor to detect how far the handle has moved...

Playing Field Setup
No game board is needed for this challenge.

Rules and Procedure
1. Start with the throttle handle all the way "back" (touching the motor casing)
2. Start the program
3. Push the throttle forward slowly to demonstrate that the robot is speeding up smoothly
4. Pull the throttle backward slowly to demonstrate that the robot slows back down
5. Beat the challenge by demonstrating a properly working throttle device!