Description

Use encoders or ultrasonic sensors to track the amount of distance a robot has traveled. Use the LED screen to display the current estimated (X,Y) coordinates of the robot. Create a return to origin function.

Components Used

- Motors drive the robot around.
- Screen for displaying predicted location (offset from starting point).
- Bluetooth for remotely controlling the robot.
    - Driving around.
    - Triggering events (possibly return to origin?)
- Encoders? (not sure if these are on the robot wheels)
    - An alternative would be 2 ultrasonic sensors pointed 90 degrees from each other. One pointed forward, one pointed to the right
- Hardware interrupts for grabbing data
- Ultrasonic sensor to avoid obstacles?