

Turtle Bot

Component list:

- Arduino Uno.
- Two DC-Motors.
- Four Push buttons.
- Potentiometer.
- Ultrasonic Distance Sensor.
- H-bridge Motor Driver.

Process:

The user will set the speed of the motors using the Potentiometer, and the direction by the four buttons.

By switching the direction of the two motors either both have the same direction which will result in a forward or backwards movement or different direction which will result in a right or left movement.

The Ultrasonic sensor will detect objects in front of the robot if it detects an object less than 50cm away it will stop.

