

## **Differential telemetry robot**

### **Materials:**

- Arduino board: Nodemcu (Recommended)
- H-bridge: L298 module is recommended.
- 2x Gearbox DC motors: Cheap DC motors from 100 to 230 rpm and 6v (recommended).
- Plastic wheels for the DC motors
- Caster wheel
- Buzzer
- AA battery holder with 4 slots (or 8 in case of using a 12v motor)
- Distance sensor: HC- SR04 (recommended).
- Humidity, temperature and and pressure sensor: BME280 (recommended).
- Protoboard: For the connections
- Jumper type wires

### **Equipment:**

- Arduino IDE
- Python 3
- Power source only for testing
- Tweezers and wire
- Multimeter