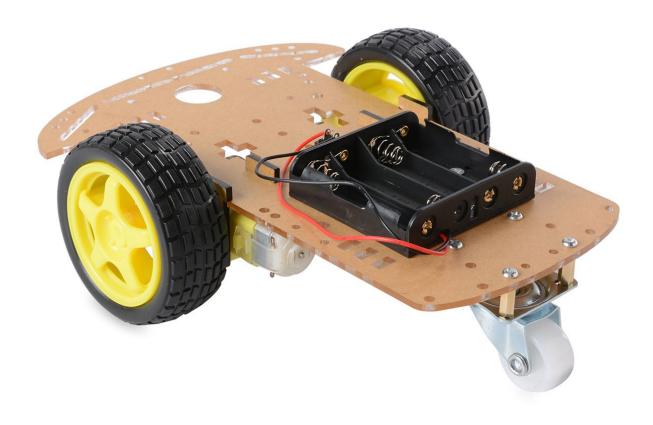
```
**SMART CAR PROJECT**
**Documentation for phase [1]**
By:EMAN Nasser
# ## **DESCRIPTION**
# ## _Vision:-
### Create the start for playing Smart.
### IDEA:-
# ## *Controlling RC cars using android application.
# ## *Converting a simple toy to a Smart one.
### OBJECTIVES:-
### *Receiving and sending basic control commands via Bluetooth.
# ## *Allow the user to create a certain route for the car.
# ## *Allow the child to learn coding throw playing.
### *Adding extra options for the toy by using sensors(ex:ultrasonic sensor,Ir sensor,flame
detector,....etc).
### **COMPONENTS**
                                       **PRICE**
# ## (FOR Phase one):-
### 1-Arduino UNO.
                                   ##145 LE.
                                       ##45 LE.
# ## 2-LM298 H bridge Module.
# ## 3-Robot chassis kit (body of car).
                                      ##40 LE.
                                ##40 LE.
# ## 4-2 Motor.
# ## 5-2 Wheel
                                 ##40 LE.
# ## 6-Bluetooth Module.
                                   ##100 LE.
### 7-Caster wheel.
                                  ##25 LE.
# ## 8-ultrasonic sensor.
                                  ##40 LE.
### 9-servo Motor.
                                 ##60 LE.
# ## 10-Mini Bread Board.
                                    ##12 LE.
# ## 11-Male-Female Jumper wires.
                                         ##5 LE.
# ## 12-3_Lithium Battries 3.7V & 1500mA ##90 LE.
### **Phase[1] Requirements** :-
### -Required in the initial phase (phase[1]) is Driving the car and make it avoid
```

obstacles, and it was done using ultrasonic sensor, car Driving is controlled by using mobile

application..



(Robot chassis kit)



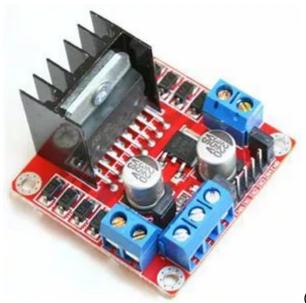
(wheel&motor)



(arduino uno)



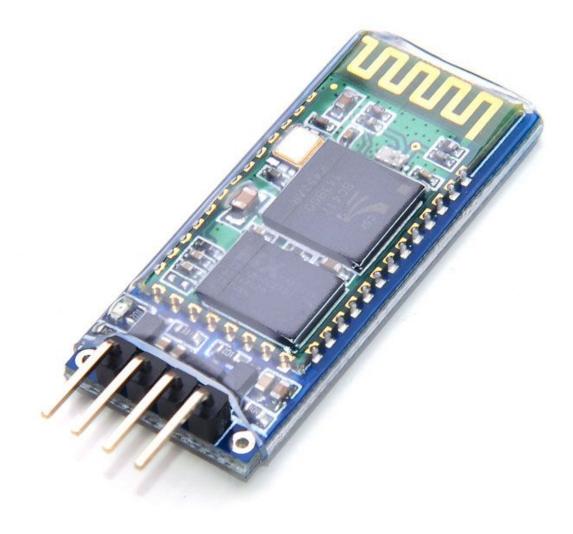
(ultra sonic)



(H-Bridge)



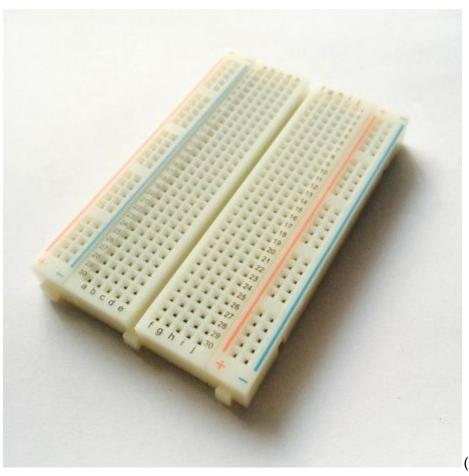
(servo motor)



(bluetooth module)



(caster wheel)



(mini breadboard)



(4-Lithium bettary)



(jumbers)