SEMESTER -05

ENGINEERING CLINICS

PROJECT FALLSEM 2022-23
REVIEW - 01

SMART ROBOT CAR USING ARDUINO

Android based smart robot control car

GUIDE NAME

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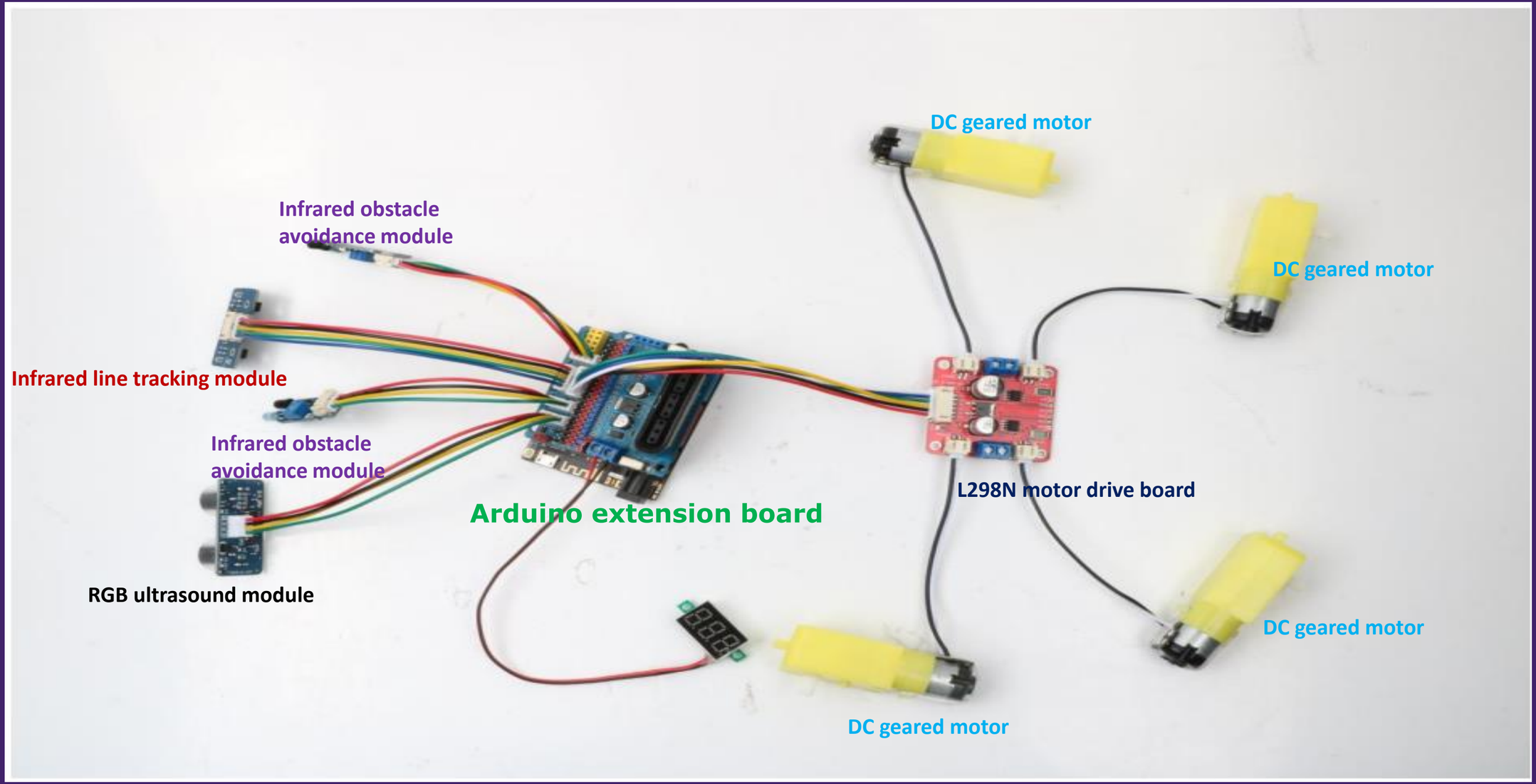
Required components

- *Arduino BLE-UNO Mother board*
- *Arduino extension board*
- *Infrared line tracking module*
- *Infrared obstacle avoidance module*
- *L298N motor drive board*
- *RGB ultrasound module*
- *Power indicator digital tube*
- *65mm wheel*
- *DC geared motor*
- *18650 battery charger*
- *SG90 servo*
- *18650 li-battery*

Schematic diagram of overall connection



Approximate Budget

S.NO	REQUIRED COMPONENT	APPOX.COST
01	Arduino BLE-UNO Mother board	700
02	Arduino extension board	300
03	Infrared line tracking module	70
04	Infrared obstacle avoidance module	50
05	L298N motor drive board	90
06	RGB ultrasound module	70
07	Power indicator digital tube	60
08	65mm wheel	60
09	DC geared motor	(70*4)=280
10	18650 battery charger	50
11	SG90 servo	120
12	18650 li-battery	(50*2)=100
	TOTAL COST	1,950

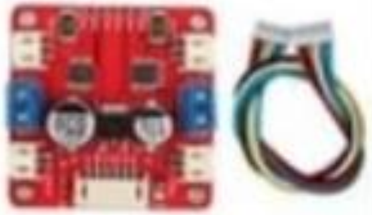
EQUIPMENTS

R3

Arduino extenison board

Infrared line tracking module

Infrared obstacle avoidance module



L298N motor drive board

RGB Ultrasond Module

Power indicator digital tube

DC geared motor

SG90 servo

18650 li-battery box

REFERENCE

- https://www.scribd.com/books
- https://www.scribd.com/document/449237250/Hummer-Bot-4-0-Instruction-Manual-V-1-5
- https://create.arduino.cc/projecthub/samanfern/bluetooth-controlled-car-d5d9ca

THANK YOU