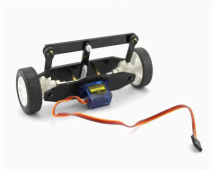
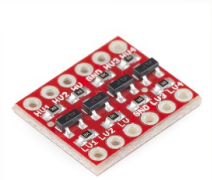
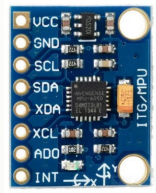
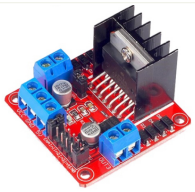
Name	Description	Image
Arduino Mega	Arduino is a microcontroller, has an efficient response time, therefore, it is the best choice for controlling the car	
raspberry pi with camera	Raspberry Pi is a single board computers ,we used it with a camera to take pictures and analyze them. Through our analysis of these images, we can know if the object is red or green to let the arduino take the correct action.	
Ultrasonic sensor	Ultrasonic is a sensor that works with ultrasonic waves. We use it to calculate distance	
servo motor	We used a servo motor as a steering mechanism to control the direction of the car (turning right or left).	
Front steering	used to control the direction of the robot	
level shifter	level shifter it converts the voltage from 3.3v to 5v or vice versa ,as we know the output from arduino is 5v and the input to raspberry is 3.3v so level shifter helps us to save raspberry from damage and to gives enough voltage to arduino.	
gyroscope sensor mpu6050	We used a gyroscope sensor to monitor the moving direction	

Digilent gearbox motor	it is a DC motor with encoder	
Driver L298n	it is a dual H-bridge to control the two DC motors	
MRK basic	A chassis