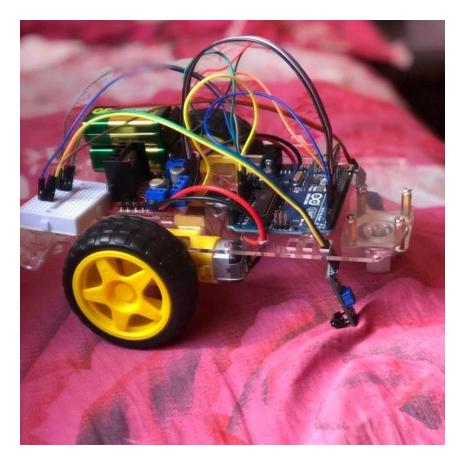
ROBOT

Team:GDFM



1st project



المشروع • وروبوت يتبع الخط الأسود



• ????? ???:



75 ???????? ??? ???? ????	??????????????
	206
?????????????	127 ????? ??????? ???
155	

:الأجزاء

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- ?????????. •
- 2 IR . Sensors
 - 22222 22222.
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 - 222222.

• ?????? ????? :

#define LS 2 // left sensor
#define RS 3 // right sensor

```
#define LM15 // left motor M1a
#define LM24// left motor M2a
#define RM17// right motor M2a
#define RM26// right motor M2b
Void setup()
{
pinMode(LS, INPUT);
pinMode(RS, INPUT);
pinMode(LM1, OUTPUT);
pinMode(LM2, OUTPUT);
pinMode(RM1, OUTPUT);
pinMode(RM2, OUTPUT);
pinMode(10,OUTPUT);
pinMode(11,OUTPUT);
analogWrite(10,100);// control the spead of left motor
analogWrite(11,100);// control the speed of right motor
}
Void loop()
{
If(!digitalRead(LS) && !digitalRead(RS)) // Move Forward on line
```

```
{
digitalWrite(LM1, HIGH);
digitalWrite(LM2, LOW);
digitalWrite(RM1, HIGH);
digitalWrite(RM2, LOW);
}
If(digitalRead(LS) && !(digitalRead(RS))) // turn left by rotationg
left motors in forward and right ones in backward direction
{
digitalWrite(LM1, HIGH);
digitalWrite(LM2, LOW);
digitalWrite(RM1, LOW);
digitalWrite(RM2, HIGH);
}
If(!(digitalRead(LS)) && digitalRead(RS)) // Turn right by rotating
right motors in forward and left ones in backward direction
{
digitalWrite(LM1, LOW);
digitalWrite(LM2, HIGH);
digitalWrite(RM1, HIGH);
digitalWrite(RM2, LOW);
}
```

```
If((digitalRead(LS)) && (digitalRead(RS))) // Finish line, stop both
the motors
{
    digitalWrite(LM1, LOW);
    digitalWrite(LM2, LOW);
    digitalWrite(RM1, LOW);
    digitalWrite(RM2, LOW);
}
```