## **Arduino Robot System Wiring Datasheet**

## **Motor Driver (L298N) Connections**

Component	Connection
EN A	Pin 6 (PWM)
EN B	Pin 9 (PWM)
IN1	Pin 2 (Left Motor)
IN2	Pin 3 (Left Motor)
IN3	Pin 4 (Right Motor)
IN4	Pin 5 (Right Motor)
OUT1/OUT2	Left Motor
OUT3/OUT4	Right Motor
VCC	9V Battery
GND	Common Ground
5V	5V Breadboard Rail

#### **IR Sensor Connections**

Component	Connection
Left IR Sensor	A0
Right IR Sensor	A1

### Color Sensor (TCS3200/TCS230) Connections

Component	Connection	
S0	A2	
S1	А3	
S2	A4	
S3	A5	
OUT	Pin 11	
OE	Pin 13 (Output Enable)	
LED	Pin 12 (LED Control)	

#### **Servo Motor Connections**

Component	Connection	
Signal	Pin 10	
VCC	5V	

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GND	Common Ground	
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