**Connections**

**Arduino Pin Configuration**

Arduino Uno → Component Connections:

Digital Pins:

- Pin 2 → L298D IN1 (Motor 1 Direction)

- Pin 3 → L298D IN2 (Motor 1 Direction)

- Pin 4 → L298D IN3 (Motor 2 Direction)

- Pin 5 → L298D ENA (Motor 1 PWM Speed)

- Pin 6 → L298D ENB (Motor 2 PWM Speed)

- Pin 7 → L298D IN4 (Motor 2 Direction)

Analog Pins:

- Pin A0 → Rain Sensor Output

Power Connections:

- 5V → Rain Sensor VCC

- GND → All component grounds

- VIN → 12V Battery Positive (through switch)

**L298D Motor Driver Connections**

L298D Module:

- VCC → 5V (Arduino)

- GND → GND (Common ground)

- 12V → 12V Battery Positive

- OUT1, OUT2 → Motor 1

- OUT3, OUT4 → Motor 2