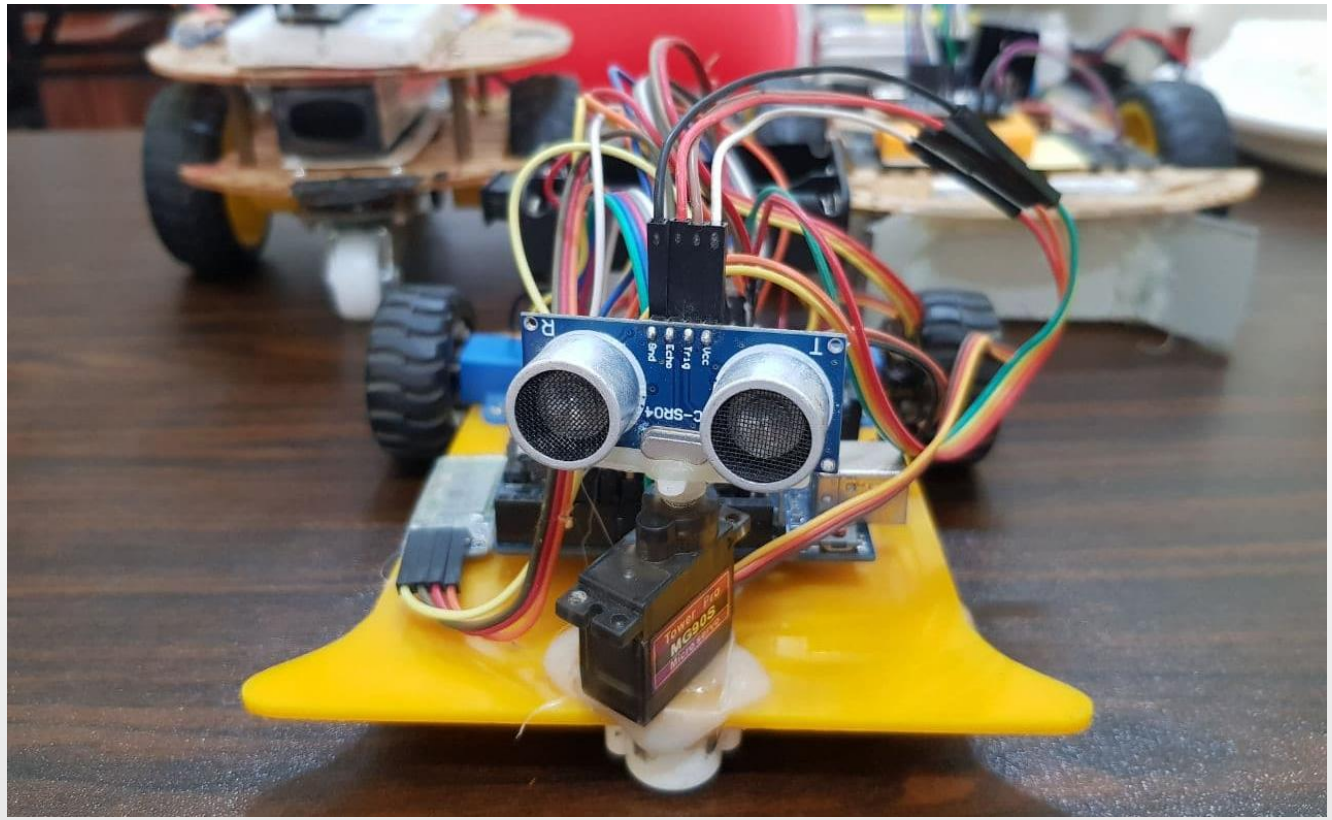
REMOTE CONTROL CAR

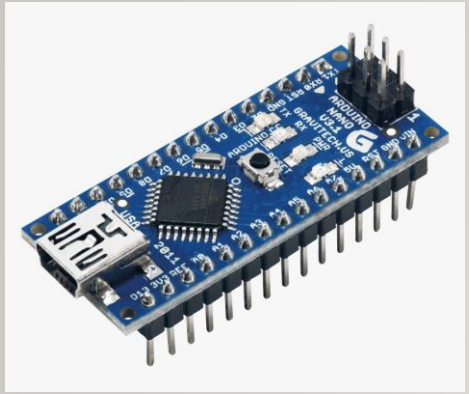


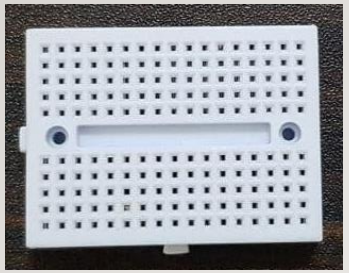
RC CAR

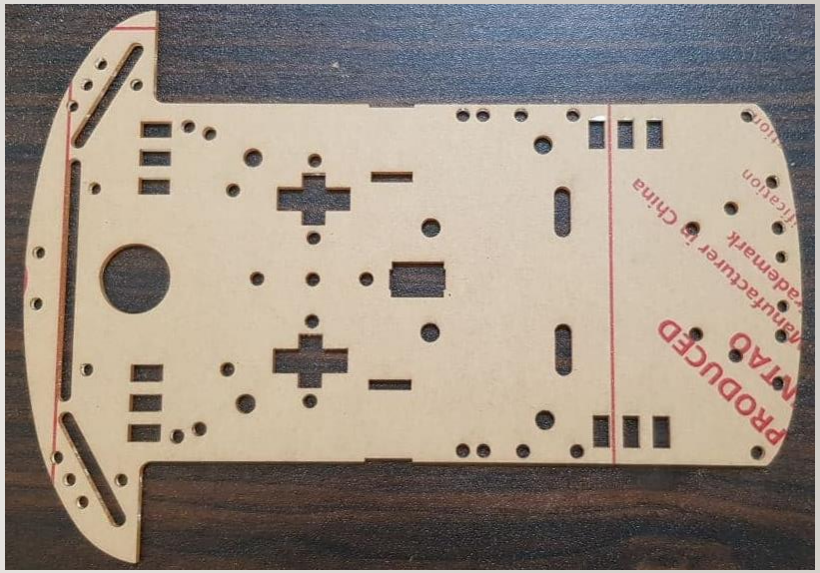
- តើ Remote Control Car ជាអ្វី?

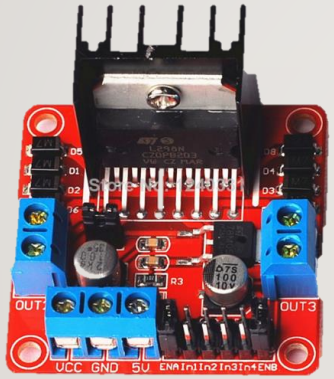
Remote Control Car គេតែងហៅថា RC Car គឺជារ៉ូបូដែលមានរូបរាងដូចជាឡាន ដែលអាចអោយអ្នកប្រើប្រាស់បញ្ជាពីចម្ងាយតាមរយៈបច្ចេកវិទ្យាផ្សេងៗ ដូចជា Bluetooth, Wireless, NRF ជាដើម។

ដើម្បីរៀបចំ RC Car ចាំបាច់ត្រូវមានឧបករណ៍ចាំបាច់មួយចំនួនដូចជា Arduino board, Motor Driver, DC Motors, Battery, Wheel .

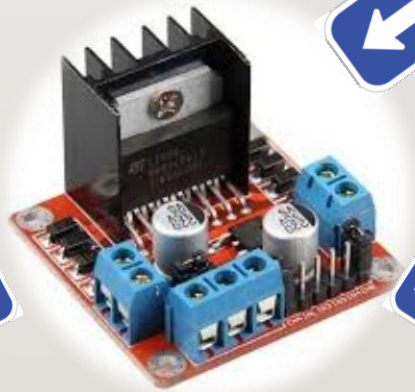






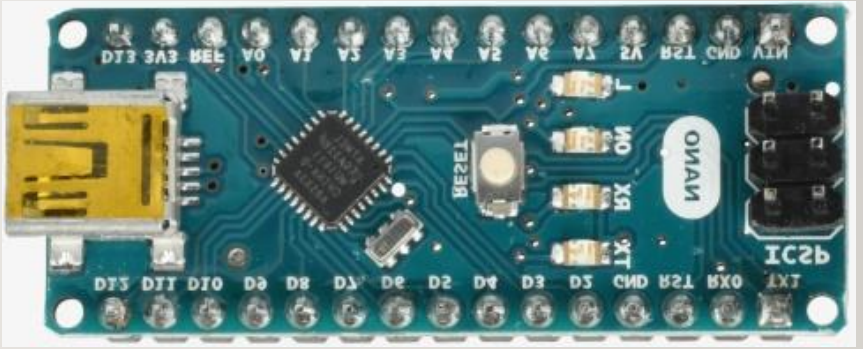



10:00
23°
San Francisco
Updated 07/11 10:00
Galaxy Store
Email
Calendar
Clock



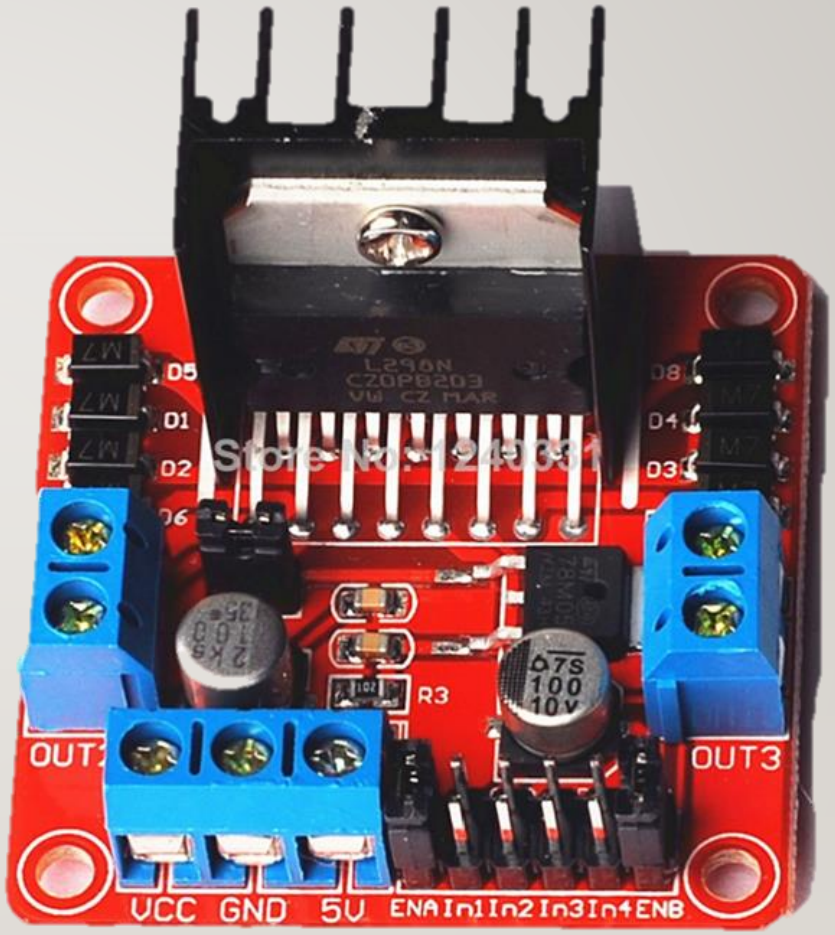
ARDUINO NANO

- Arduino Nano គឺជាboard បញ្ជាស្ថិតក្នុងក្រុម Arduino ដែរ ដែលវាមានទំហំតូច និងមានសមត្ថភាពសមល្មមសម្រាប់គ្រប់គ្រងការបញ្ជា RC Car បាន។



MOTOR DRIVER L298N

- L298N គឺជា board អាចអោយយើងគ្រប់គ្រងល្បឿន និងការផ្លាស់ប្តូរទិសដៅវិលរបស់ DC motorទាំងពីរៗ

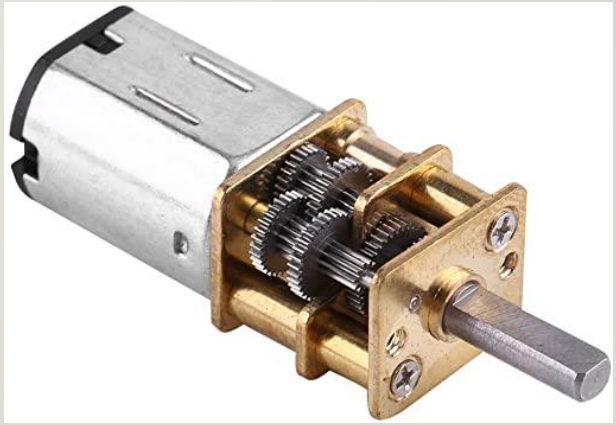


BLUETOOTH HC-06

- HC-06 ជាឧបករណ៍ដែលទទួលទិន្នន័យពី smartphone តាមរយៈ Bluetooth ហើយវាបញ្ជូនបន្តទៅកាន់ Arduino board ហើយ Arduino បញ្ជូន Data ទៅកាន់ L298N ដើម្បីធ្វើការបញ្ជាទៅលើ Motors ទាំងពីរ។

DC GEAR MOTOR 12V

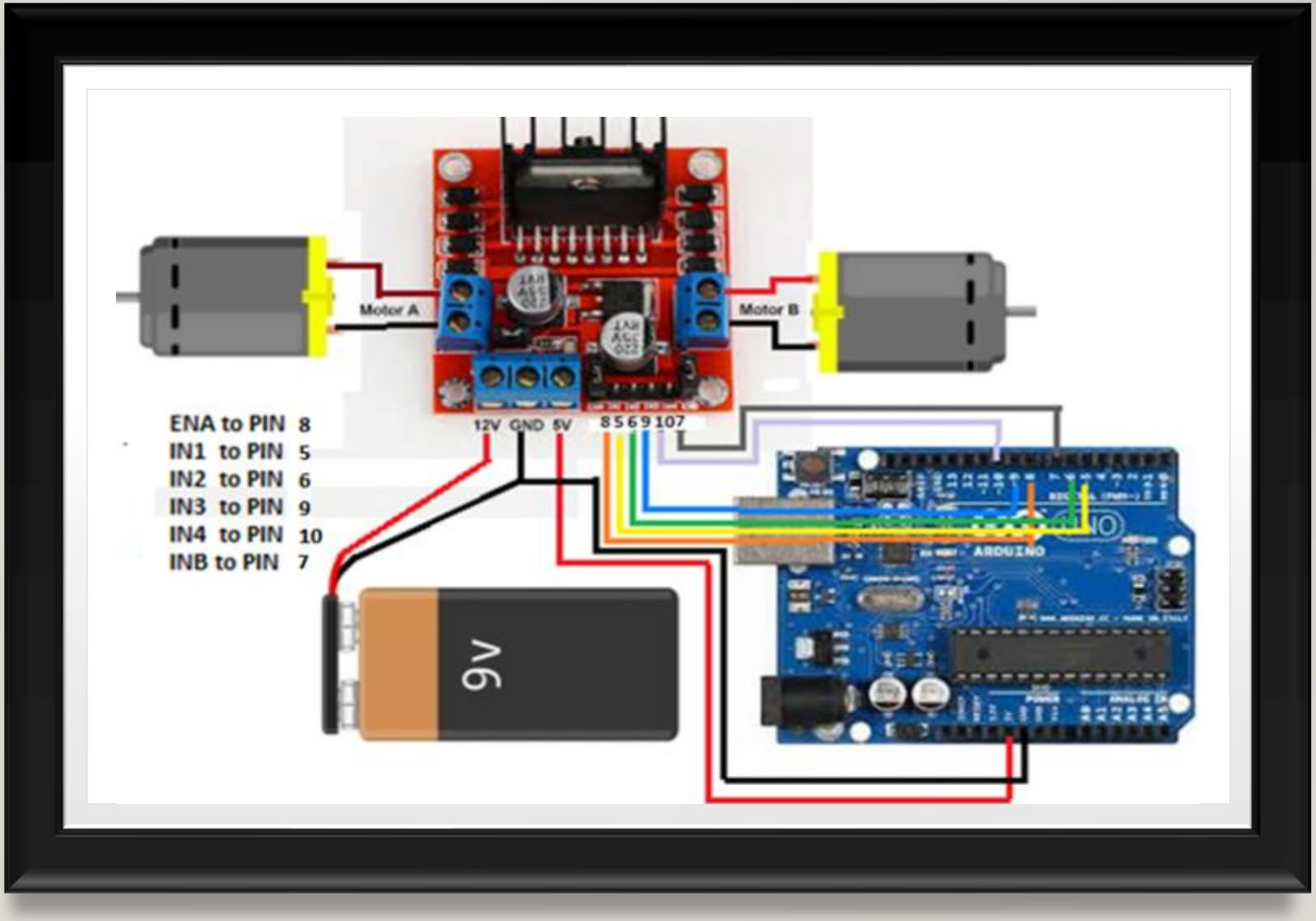
- ជាប្រភេទ Motor ដែរមានតង់ស្យុង12V សម្រាប់បង្វិលកង់អោយRobot ទៅមុខ ទៅក្រោយ ទៅឆ្វេង ឬ ទៅស្តាំ។



BATTERY

- គឺជាប្រភពថាមពលសម្រាប់ផ្តល់ទៅអោយ Motor 12V។វាផ្តល់តង់ស្យុងពី 9V-12V ទៅអោយ L298N និង Arduino Board។

របៀបតភ្ជាប់ HARD WARE



Remote_Control_Car §

```
int IN1 = 5;
int IN2 = 6;
int IN3 = 9;
int IN4 = 10;
int ENA = 8;
int ENB = 7;
int speeds = 0;
```

Done compiling.

DECLARE MOTOR PIN

Remote_Control_Car §

```
void setup() {
    pinMode(IN1,OUTPUT);
    pinMode(IN2,OUTPUT);
    pinMode(IN3,OUTPUT);
    pinMode(IN4,OUTPUT);
    pinMode(ENA,OUTPUT);
    pinMode(ENB,OUTPUT);
}
```

Done compiling.

SETUP FUNCTION

Remote_Control_Car §

```
void loop(){
  forward();
  delay(2000);
  Stop();
  backward();
  delay(2000);
}
```

Done compiling.

LOOP FUNCTION

Remote_Control_Car §

```
void forward(){
  int speeds = 255;
    digitalWrite(IN1,1);
    digitalWrite(IN2,0);
    digitalWrite(IN3,1);
    digitalWrite(IN4,0);
    analogWrite(ENA,speeds);
    analogWrite(ENB,speeds);
}
```

Done compiling.

FORWARD FUNCTION

Remote_Control_Car §

```
void backward(){
    speeds=255;
    digitalWrite(IN1,0);
    digitalWrite(IN2,1);
    digitalWrite(IN3,0);
    digitalWrite(IN4,1);
    analogWrite(ENA,speeds);
    analogWrite(ENB,speeds);
}
```

Done compiling.

BACKWORD FUNCTION

Remote_Control_Car §

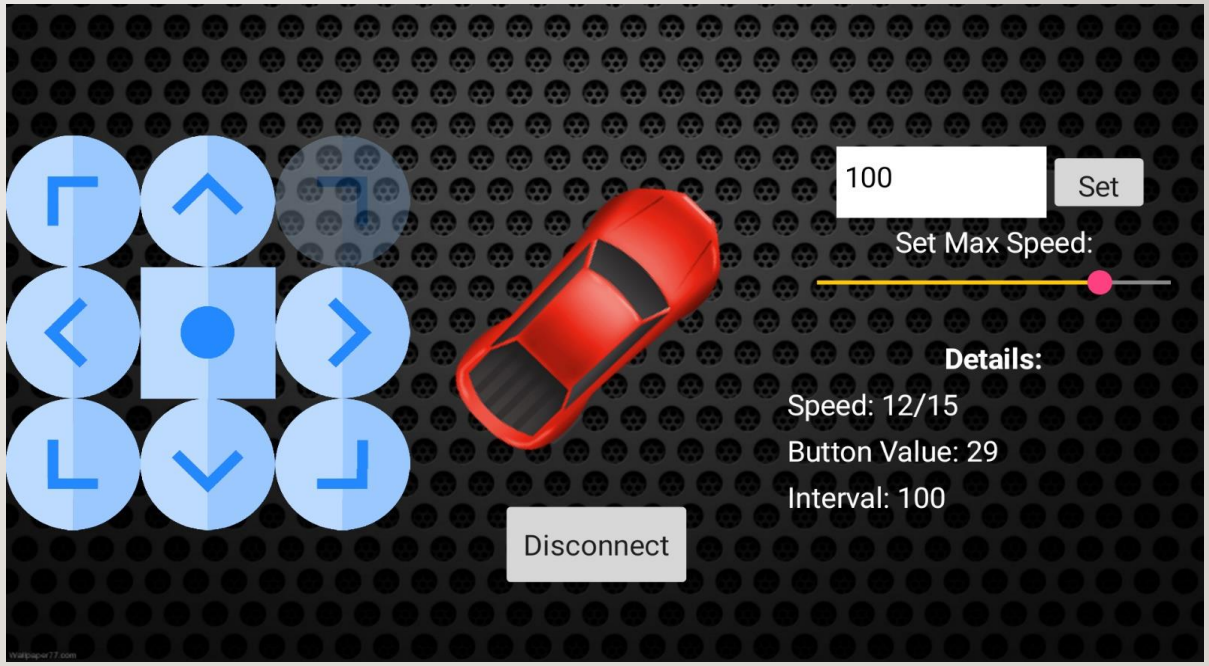
```
void Stop(){
    digitalWrite(IN1,1);
    digitalWrite(IN2,1);
    digitalWrite(IN3,1);
    digitalWrite(IN4,1);
    delay(100);
}
```

Done compiling.

STOP FUNCTION

HOW TO USE APP ON SMART PHONE

- Forward >> F
- Back >> B
- Left >> L
- Right >> R
- Forward Left >> FL
- Forward Right >> FR
- Back Left >> BL
- Back Right >> BR
- Stop >> S (usually automatic)



When pressing Forward Right

HOW TO USE APP ON SMART PHONE

- You can set the interval between each signal using the textbox.

  [Default = 100ms]

- You can change the car speed with the slider.

  [Default = 12]