



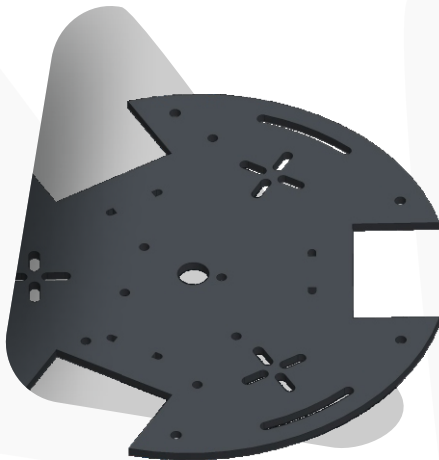
Made with Top Brands

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**EasyMech, SmartElex, Orange**

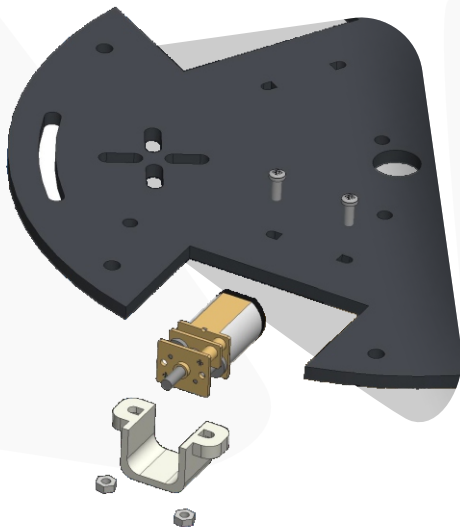
## **Assembly Guide**

## Step 1



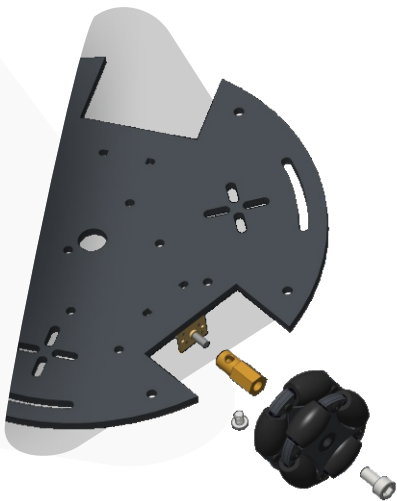
**Pay attention to the Top & Bottom side of the plates while assembling.  
Image shown is the Top side.**

## Step 2



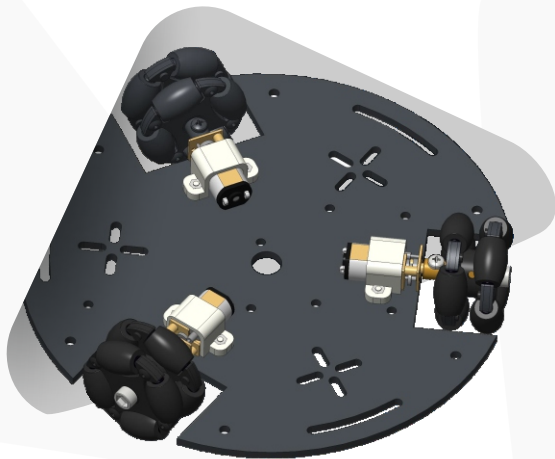
**Mount the N20 Micro geared motor on the backside of the baseplate by using motor bracket as shown in the image.**

### Step 3



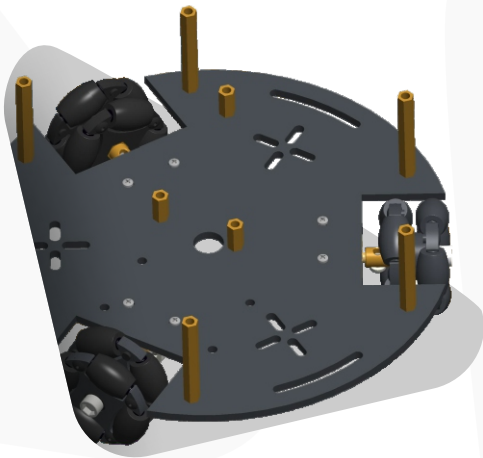
**Attach the Omni Wheel to the motor shaft with the help of small brass coupling.**

#### Step 4



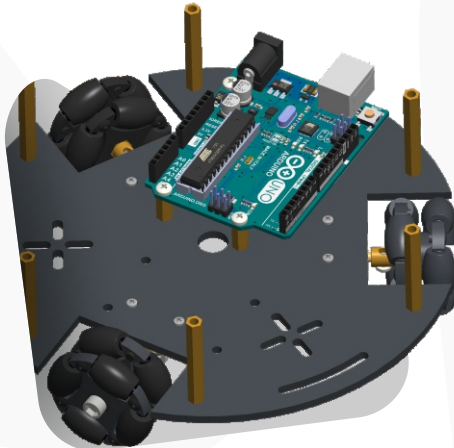
**Repeat the procedure  
for remaining motors**

**Step 5**



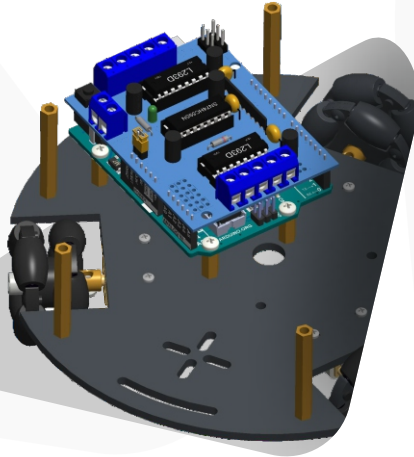
**Fasten the screws to mount  
Brass standoffs spacers on the  
front side of the baseplate.**

## Step 6



**Mount the Arduino Uno on small  
standoff as shown in image.**

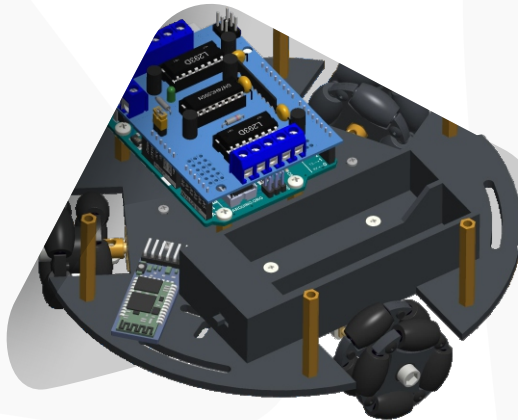
## Step 7



**Place the L293D Motor Driver Shield on the Uno. Pay attention to the direction of L293D Driver Shield. Make the connections of the motors.**

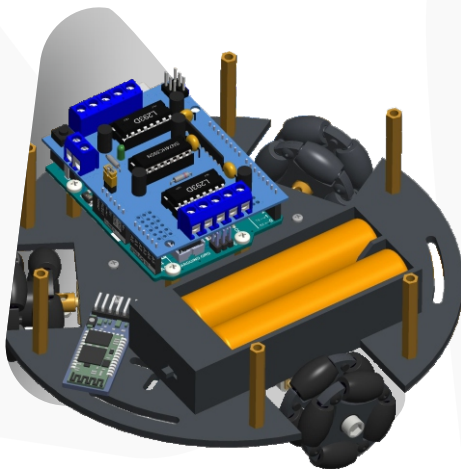


## Step 8

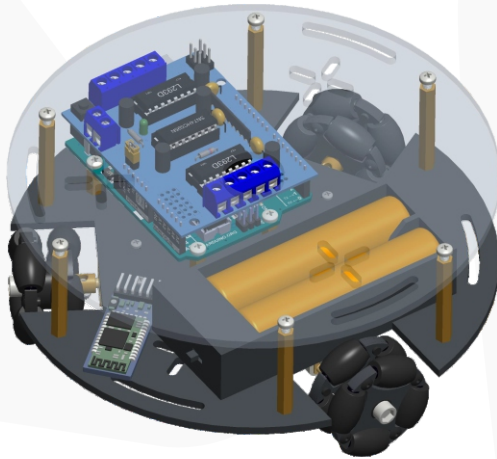


**Mount the 18650 LI-ion battery Holder by using the CSK bolts & nuts Place the HC-05 Bluetooth Module with the help of 3M DST pad.**

## Step 9

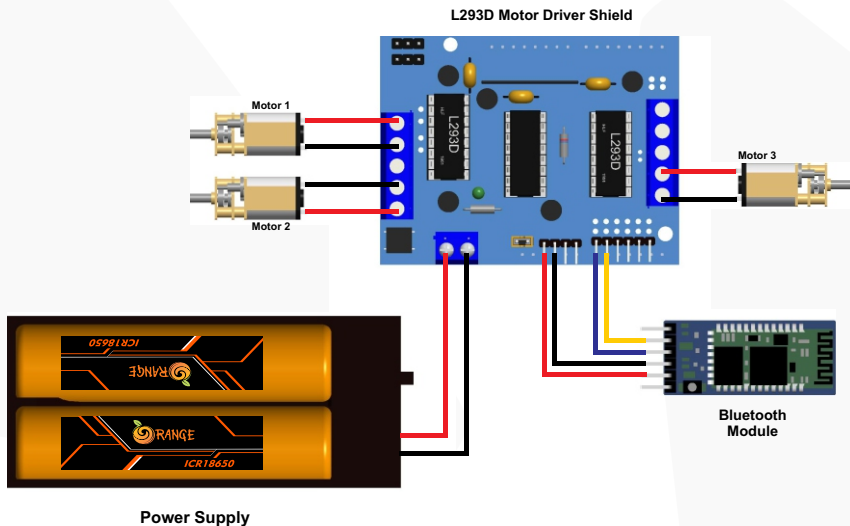


**Insert the Orange 18650 Li-ion batteries in the holder such that the cells are facing the correct direction as per marking inside the battery holder.**



**Make the connection of the Bluetooth & Battery holder to the Motor Driver shield. Fasten the screws to mount the top plate.**

# Connection Diagram



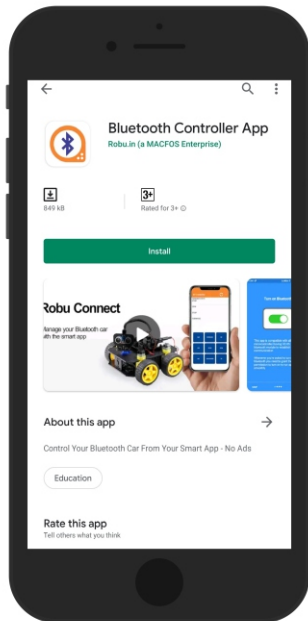
1. Each movement of the vehicle is controlled by the program so it is necessary to get the program installed and set up correctly. We will use the Arduino Software IDE (Integrated Development Environment) as a programming tool. Go to <https://www.arduino.cc/en/Main/Software> and download and install Arduino IDE software.

2. Download and install USB driver from <https://sparks.gogo.co.nz/ch340.html> In the Arduino IDE when the CH340 is connected you will see a COM Port in the

Tools > Serial Port menu, the COM number for your device may vary depending on your system.

3. Download attachment "Codes & Arduino Libraries". You will get all the codes and libraries required for the robot. Install the libraries and upload the program.

Scan the QR code  
to Download **Bluetooth Controller** app





1

Open the app & turn on the device **Bluetooth**.



2

Connect the device to the **HC-05**.  
Password is “1234” or “0000”



3

Configure the **buttons**.



4

Have a great ride