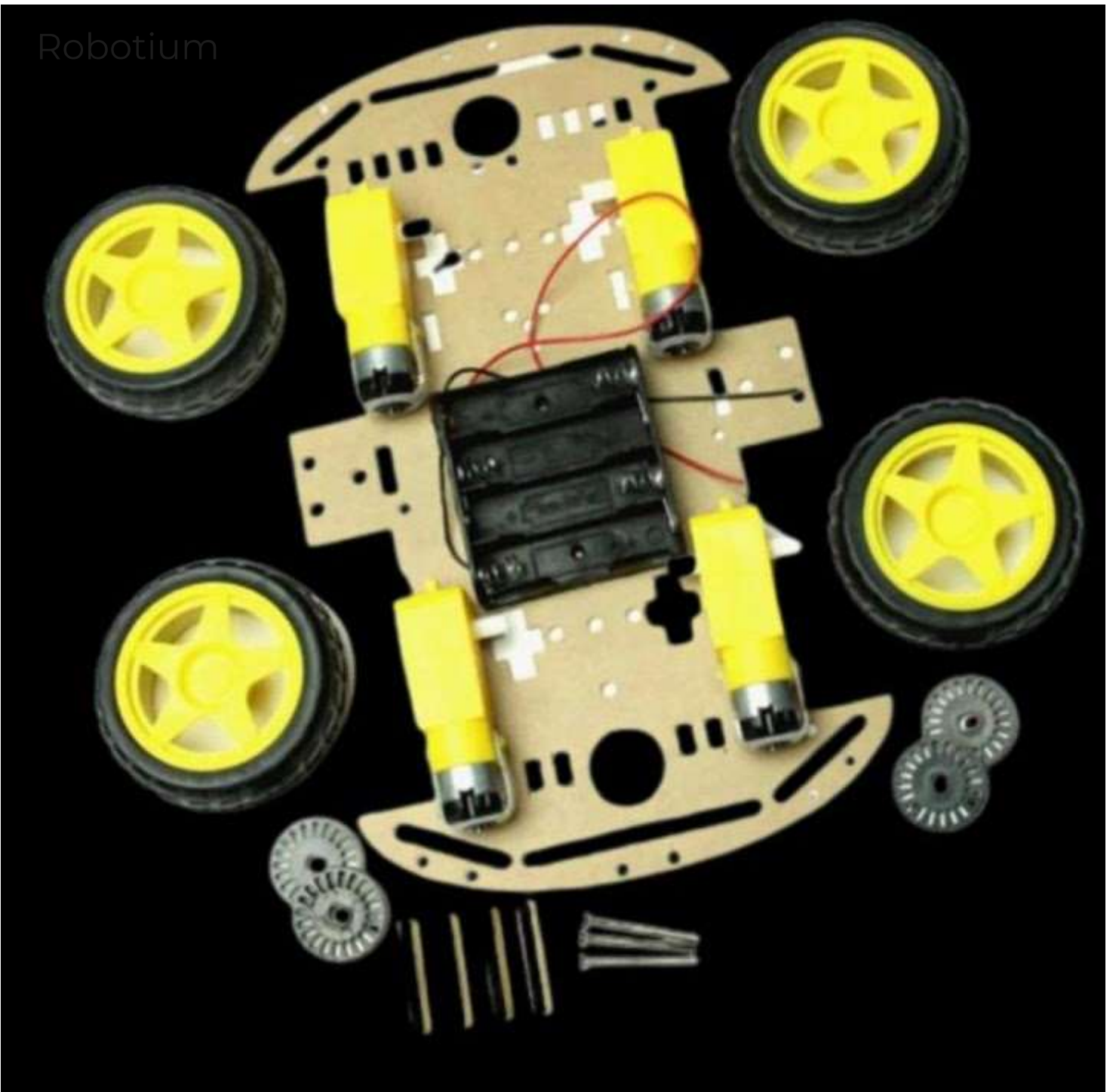


Robotium

# ROBOTIUM

We the students from Artificial Intelligence and Data Science Dept. are preparing an Arduino robo using hand gesture for our tech fest.

We are preparing this blog with recording all the details hoping that it'll be helpful for your further projects .



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## *PARTS REQUIRED -*

~Acrylic board-5mm

~18650 Li-ion battery-2pcs

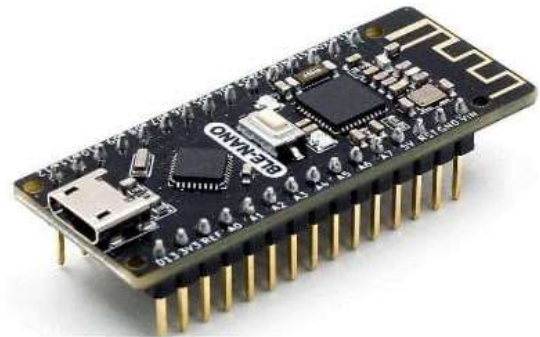
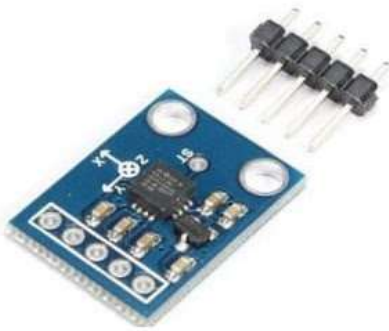
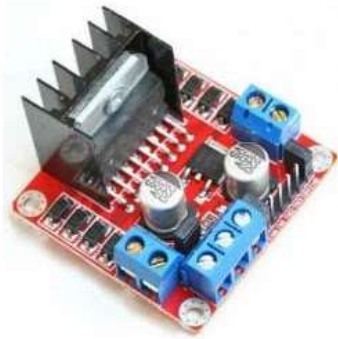
~18650 Battery holder

~TT gear motors-4pcs

~Rubber wheels-4pcs

~Required screws and wires

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~Female and Male header pins(Required)

~PCB board-2pcs(optional)

~L298N Motor driver

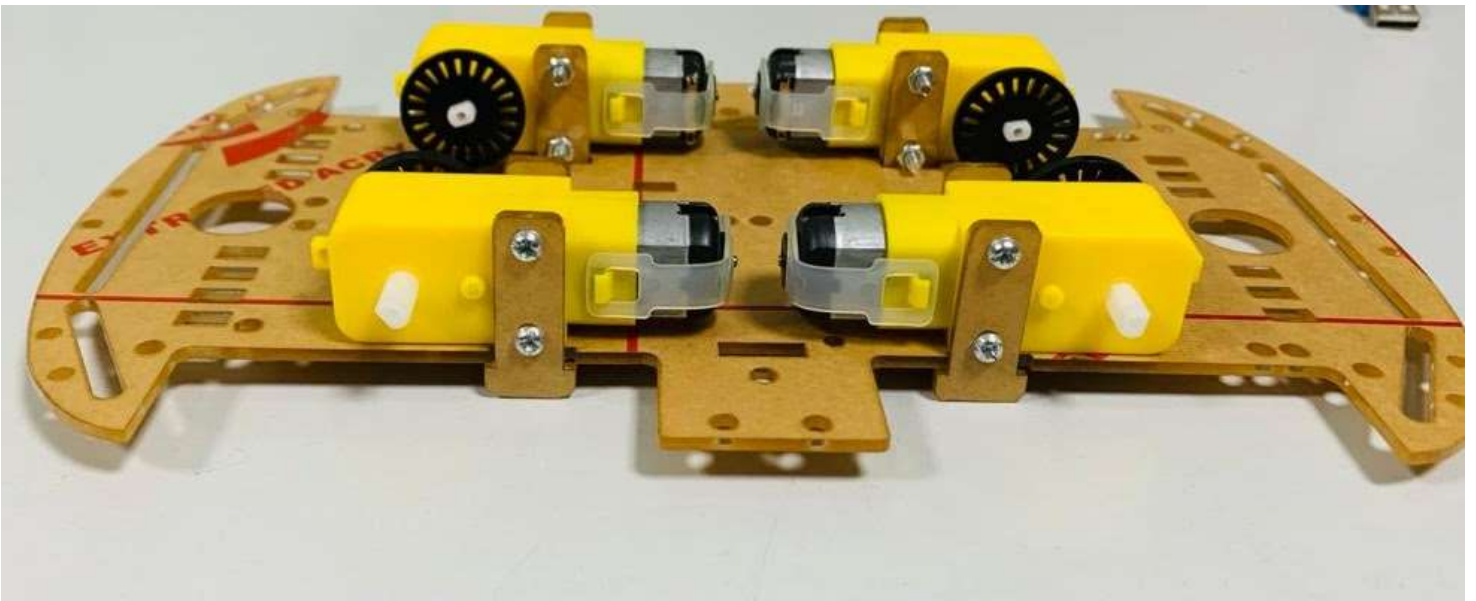
~Screw terminals

~ADXL355 Module

~RF Nano-2pcs

~Jumper wires -2

~NRF24L01 Module(optional)



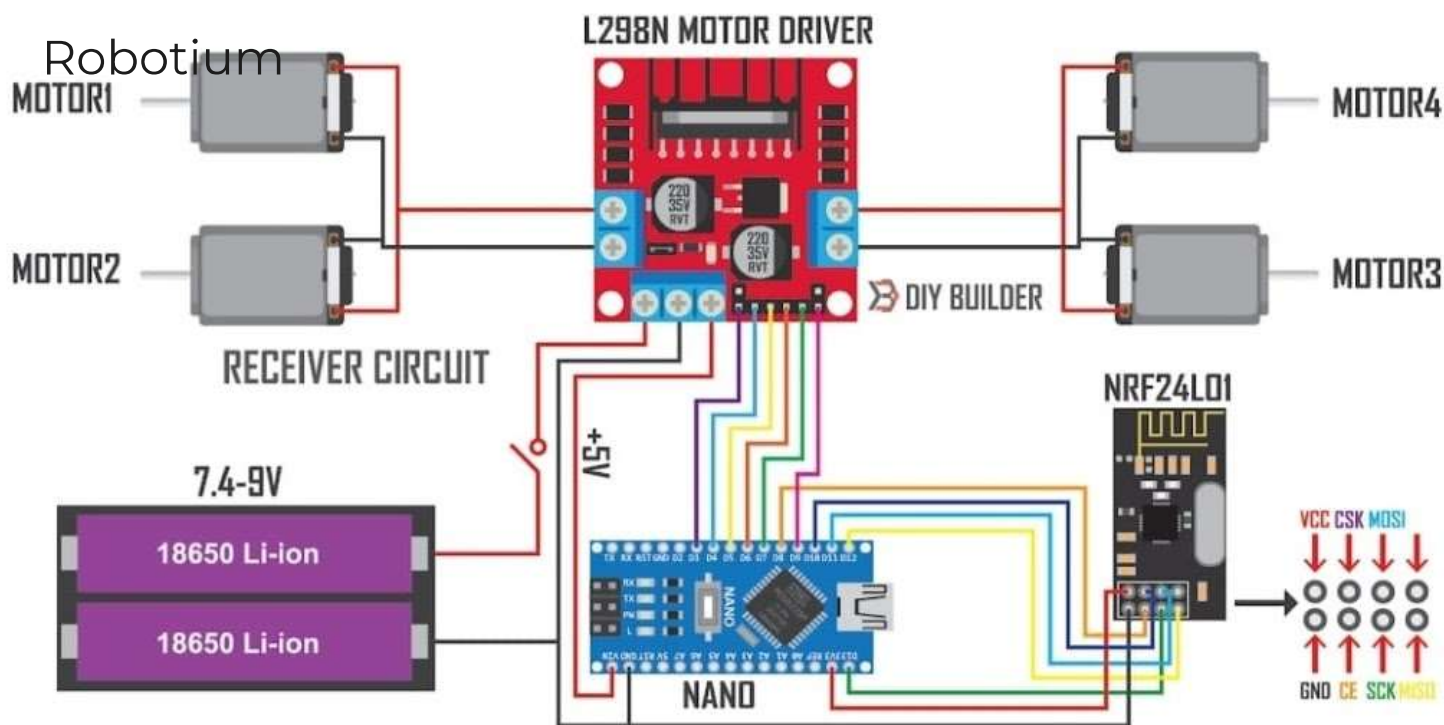
## PROCEDURE-(MOTORS FIXING)

1.Attach TT motors to the acrylic board using cleats.

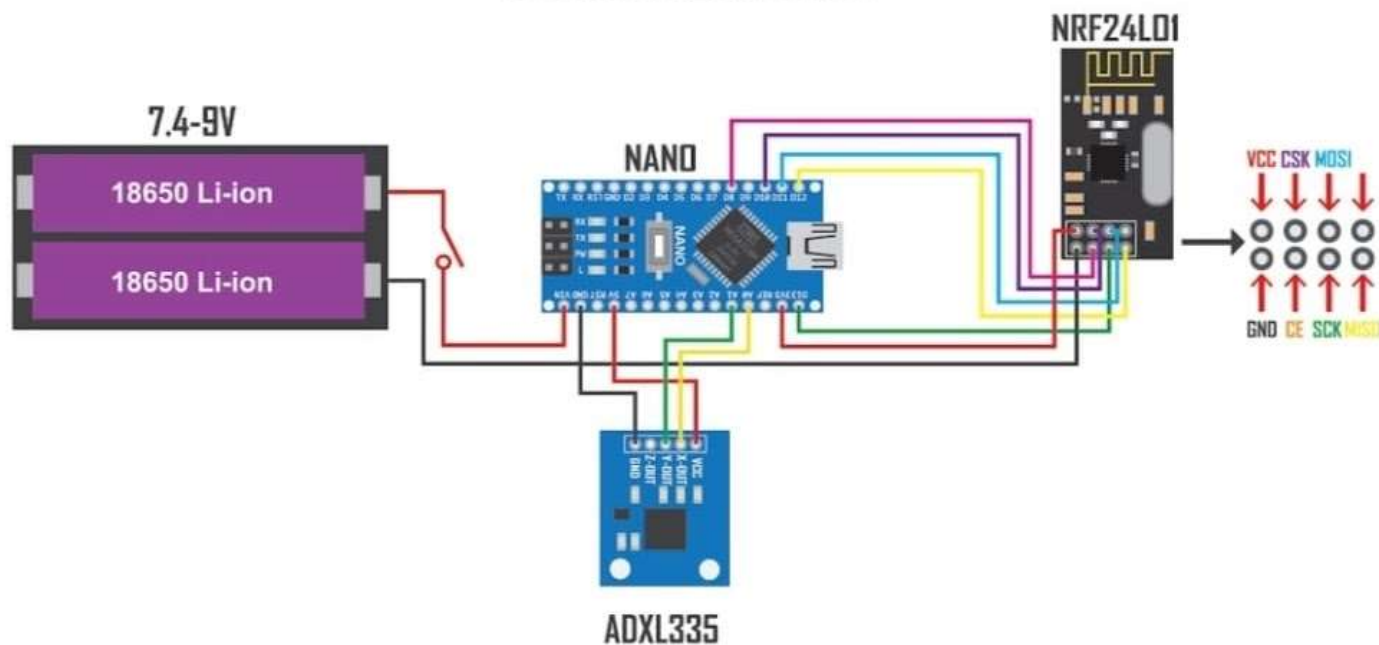
2.With the help of a screw driver attach the motor as shown.

CIRCUIT DIAGRAM:

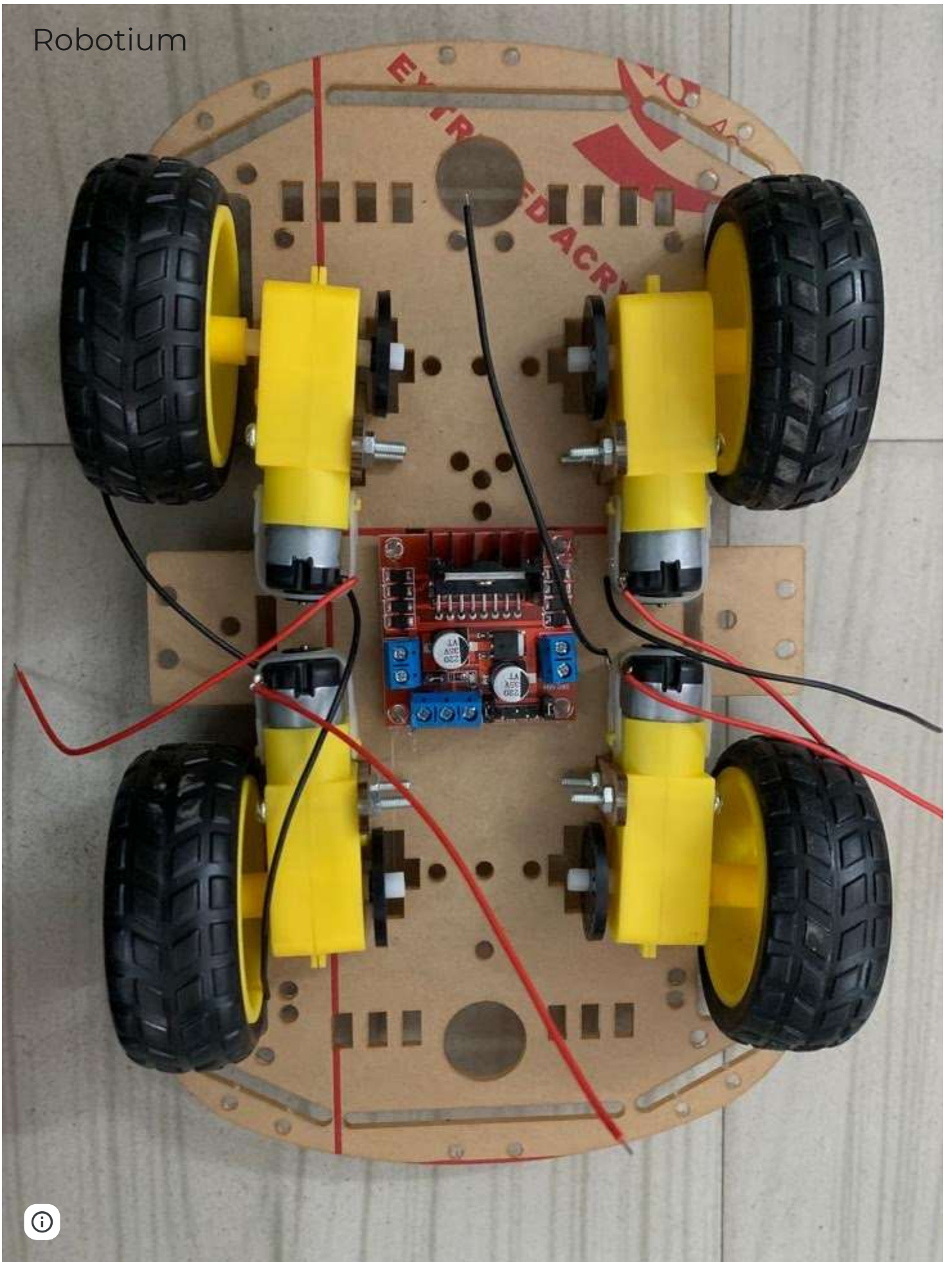




## TRANSMITTER CIRCUIT



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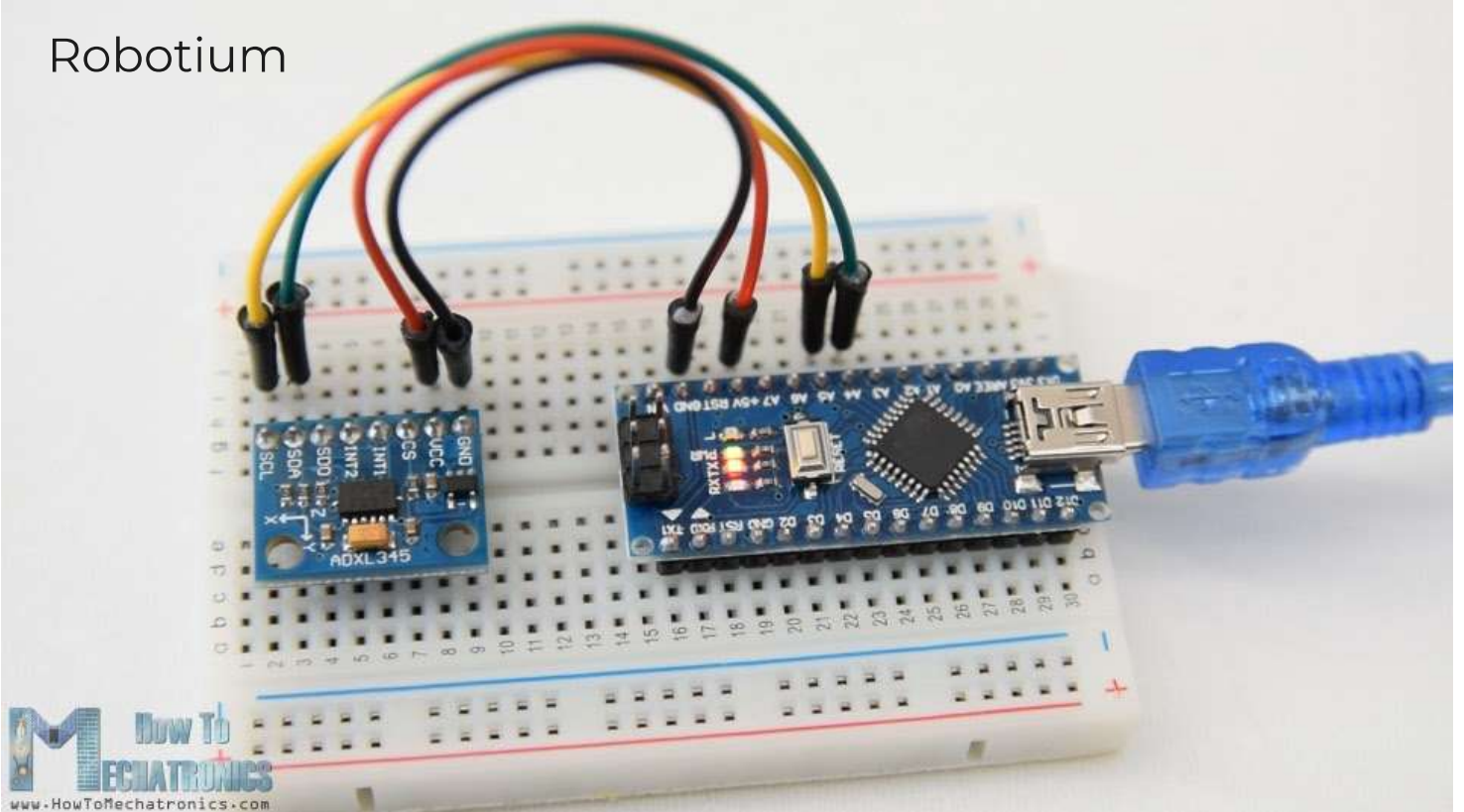


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9.Now take the another RF Nano(as transmitter) and connect it to the ADXL355 Module as shown in fig.

10.Dump the code of transmitter to the RF Nano.

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11.Lastly secure and fix all the components in their respective places .

12.And the transmitter part was placed on a band which has to be wear by our hand.

TRY IT OUT.....

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