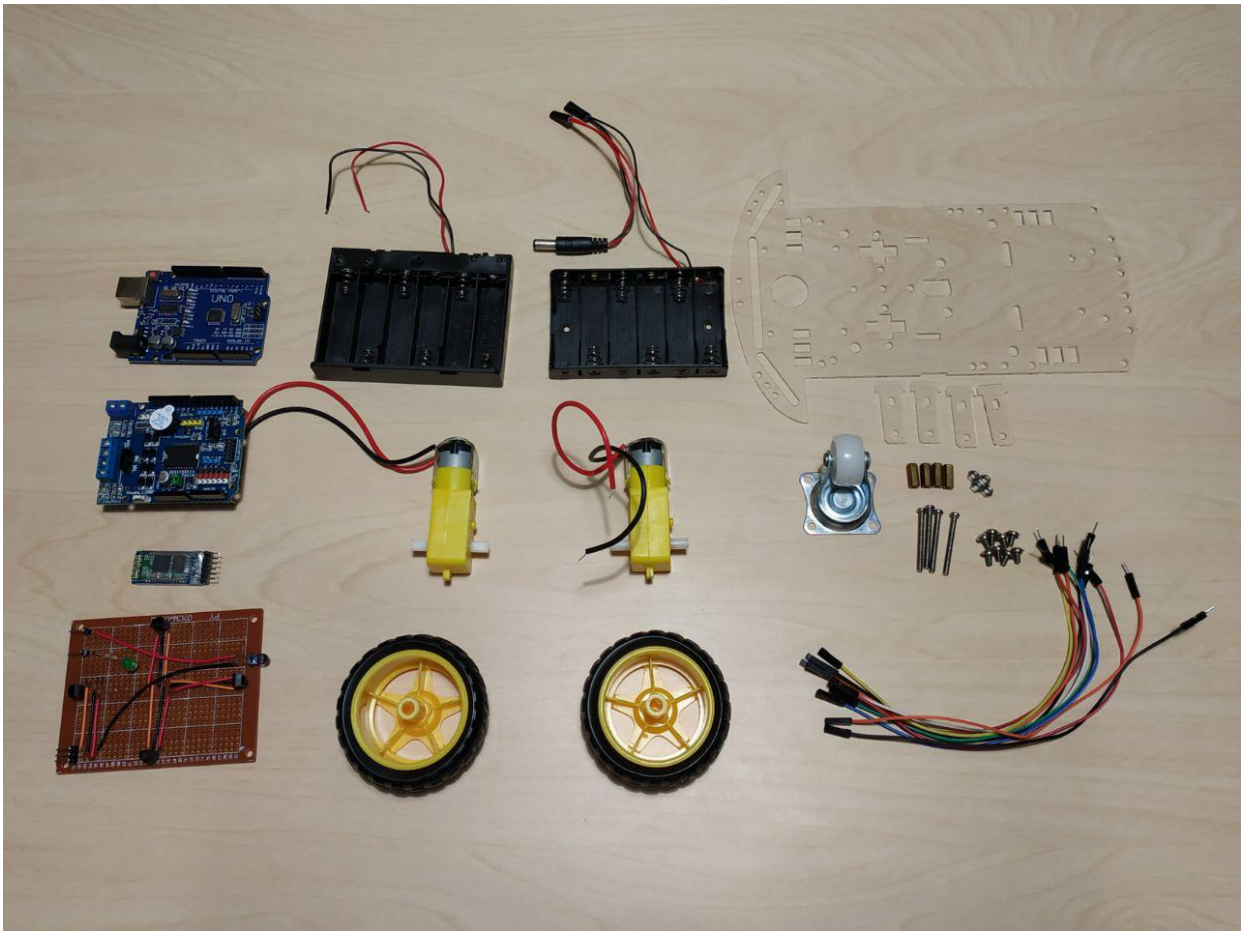
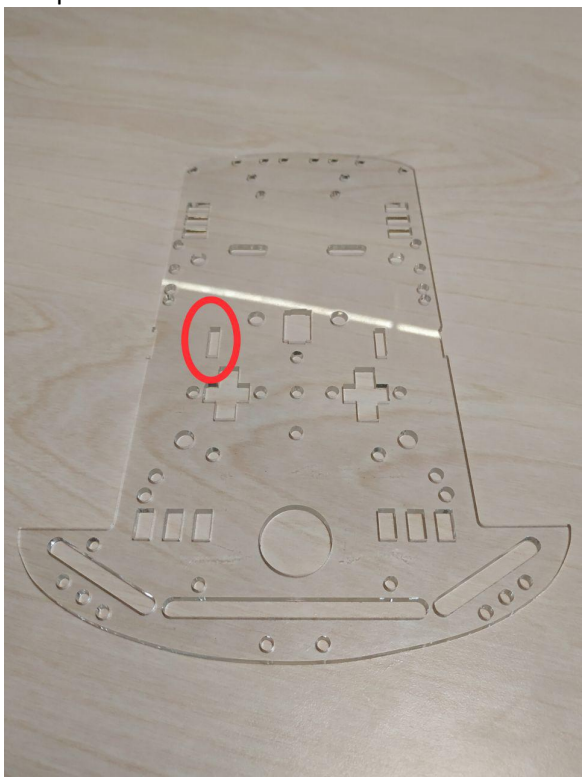
Car Assembly Manual



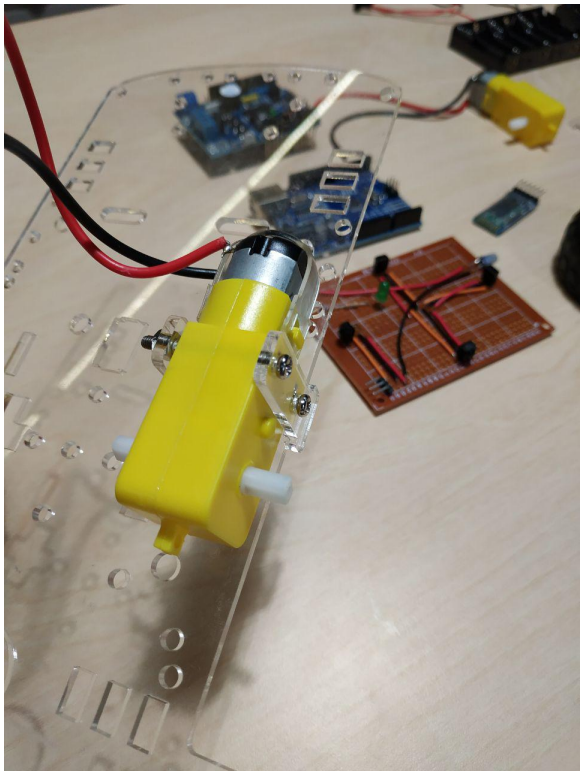
What you need:

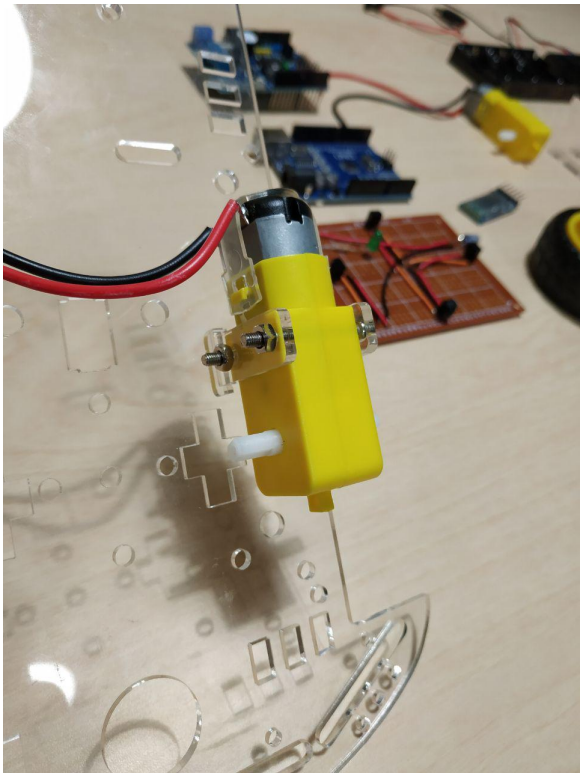
1. 2 Wheels
2. 2 DC motors
3. 1 Free wheel
4. 1 Acrylic chassis
5. Assorted bolts and nuts and screws as shown in picture
6. 2 Battery holders
7. 1 Bluetooth module
8. 1 IR emitter/receiver add-on
9. 4 Wheel chassis connectors
10. 1 Fundumoto shield
11. 10 Female-to-Male jumper Wires
12. 1 Male-to-Male jumper wire
13. Screwdriver

Step 1:

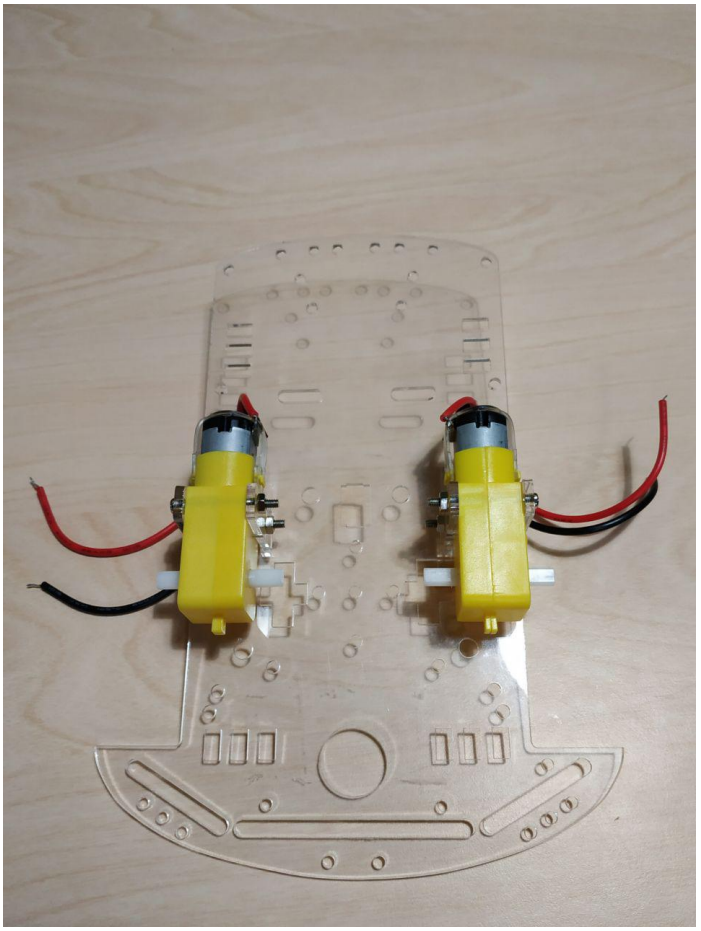


Place wheel connectors in holes as circled and place the motor in as shown below. Use the nuts as bolts to secure firmly in place as seen





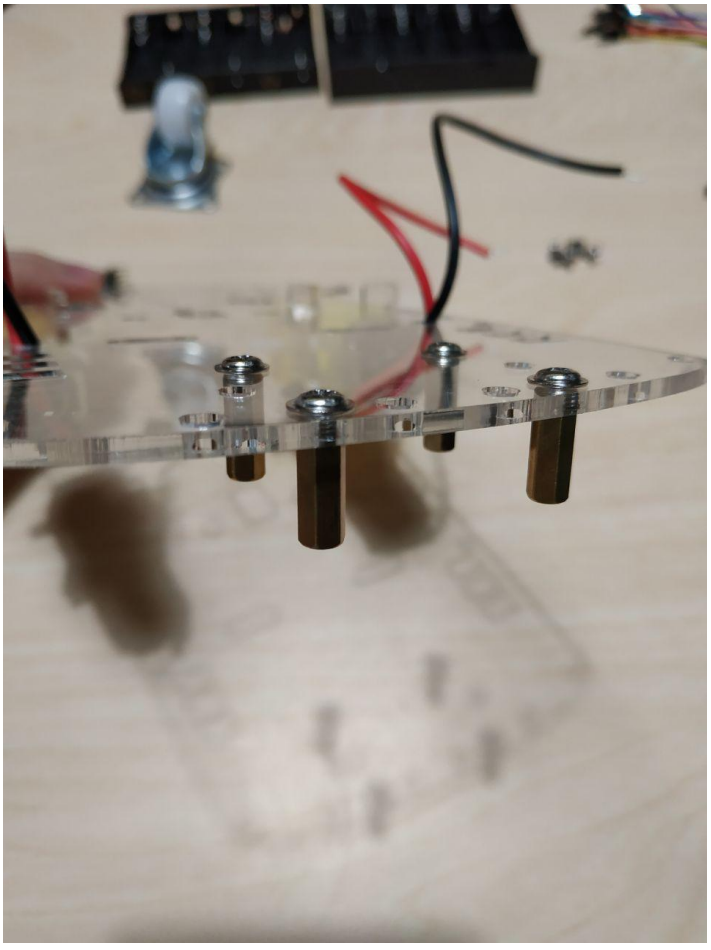
Repeat for both sides:



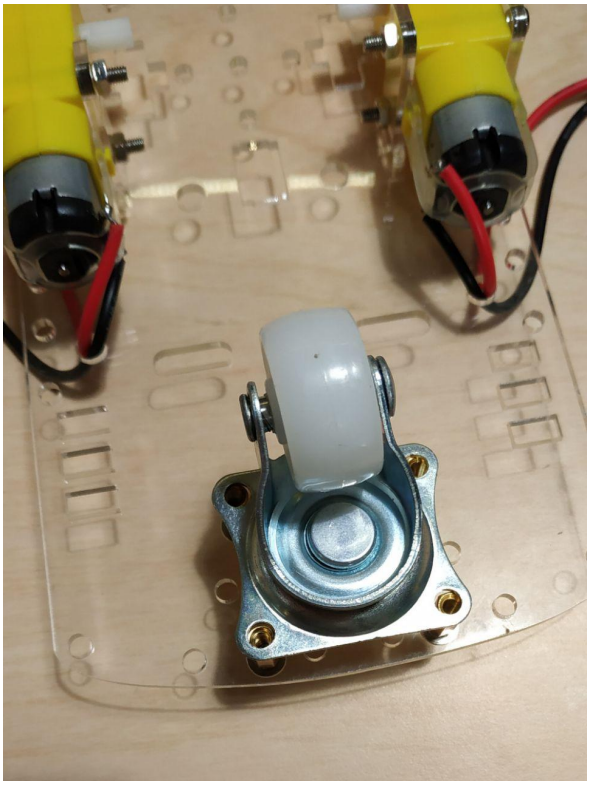
Motor should be facing the ground

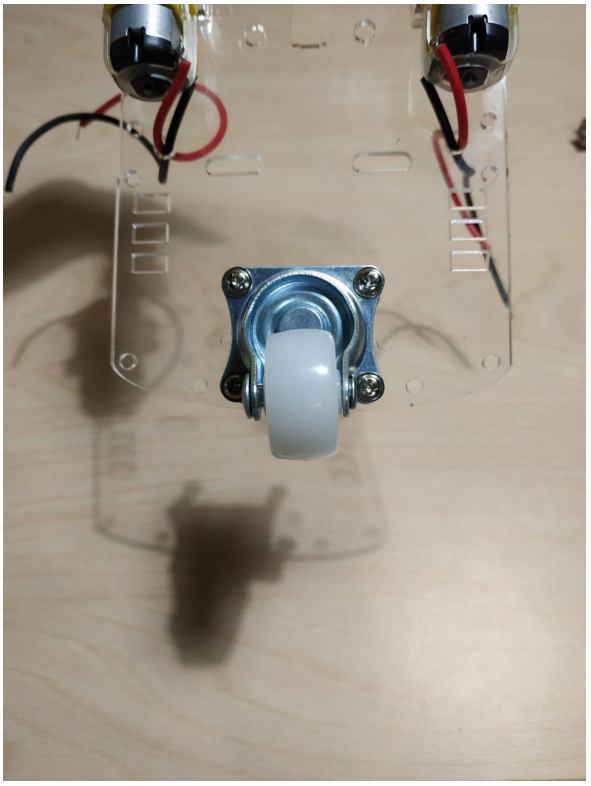
Step 2:

Attach extenders to the front of the car and screw in as shown:

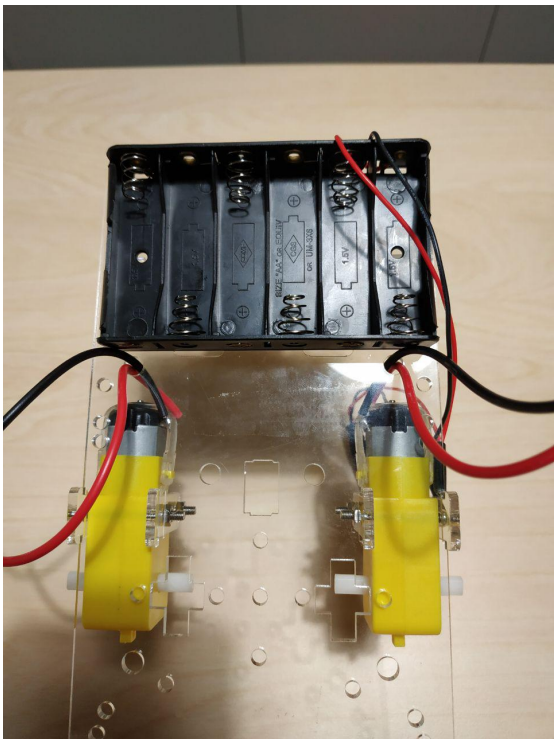


Align the free wheel as seen and screw in the free wheel firmly:





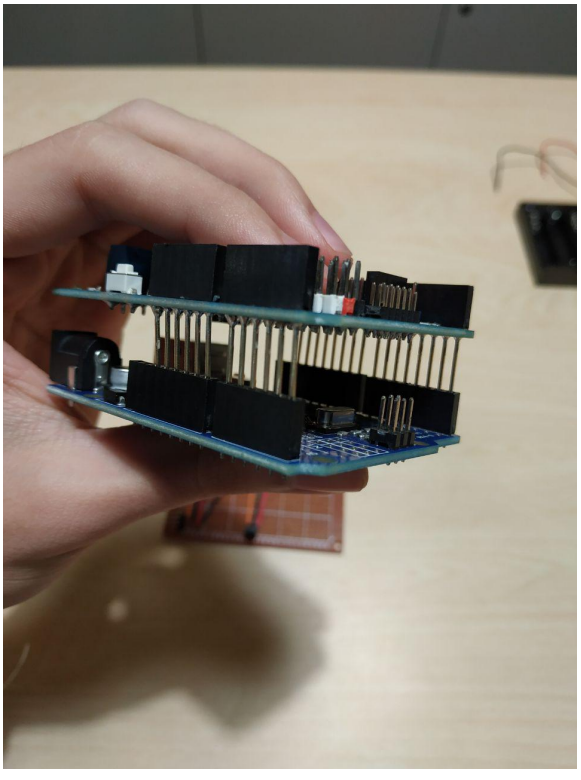
Step 3: attaching the battery case



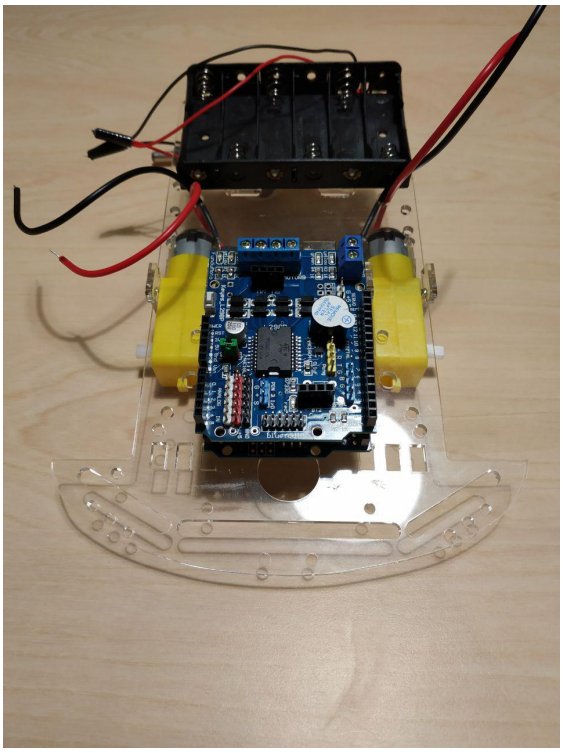
Tape the battery holder down directly above the free wheel and pull the pair of wires attached to both motors through the hole as shown.

Feel free to slot in the wheels into the motor as this point.

Step 4: Attach the shield holder to the Arduino Uno, making sure to align all the pins before pushing the shield in firmly

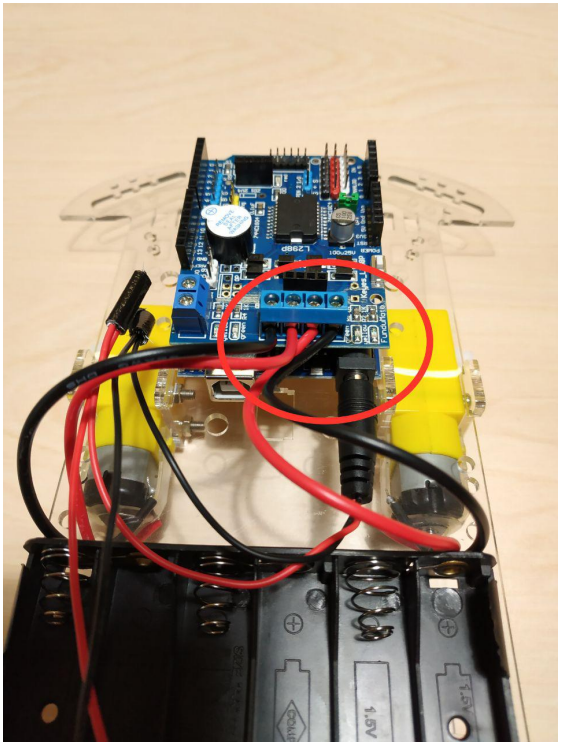


Step 5: Tape Arduino Uno and Shield onto the chassis as shown



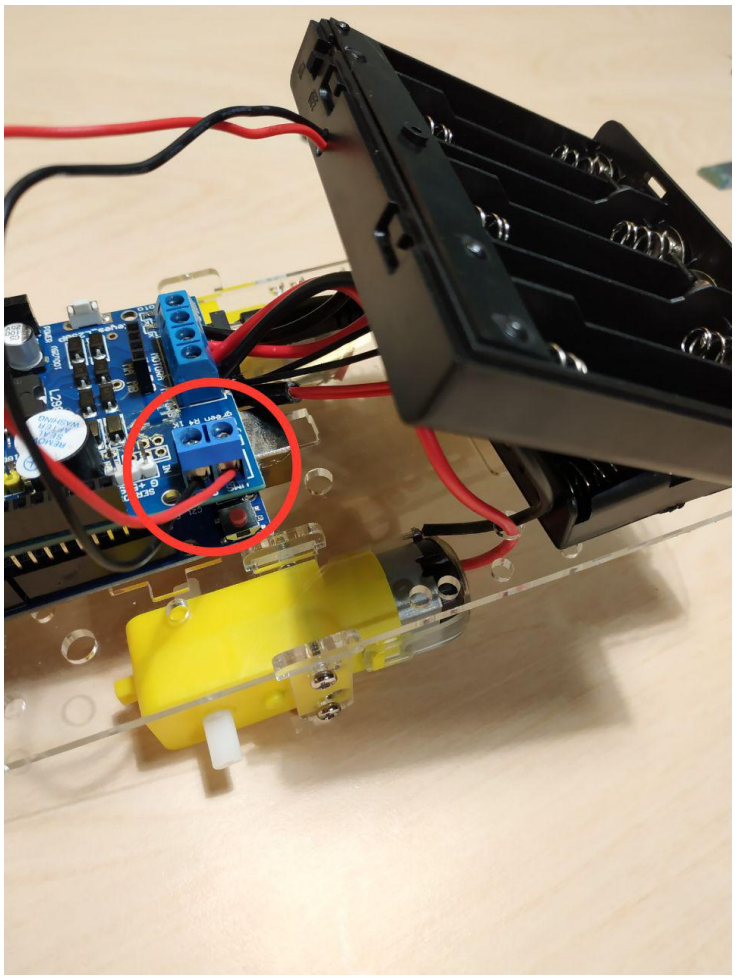
Be sure not to tape the Uno over the holes where the wire come out from.

Step 6: Attaching wires from motors into the motor shield

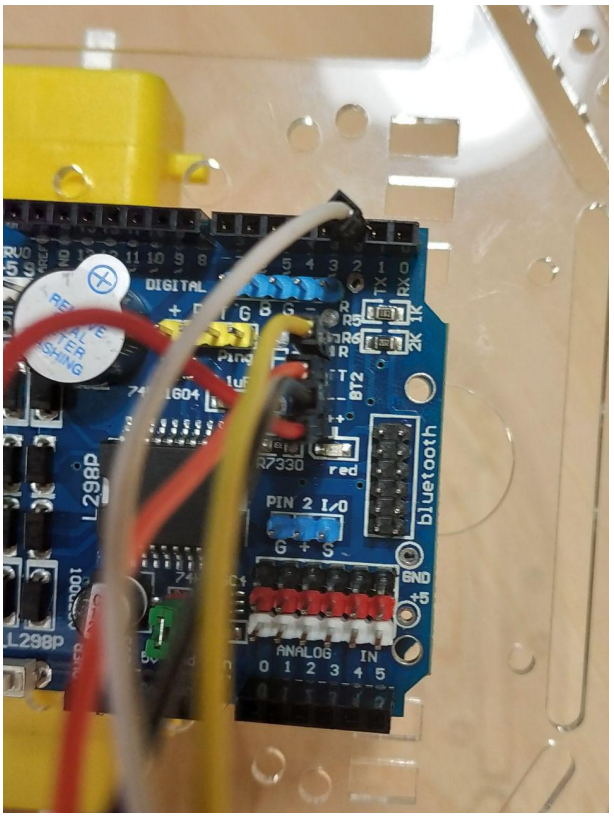


Loosen the screws on the motor shield to allow the exposed wires to be slotted in.

Tighten firmly once the exposed wire copper bits are in the shield

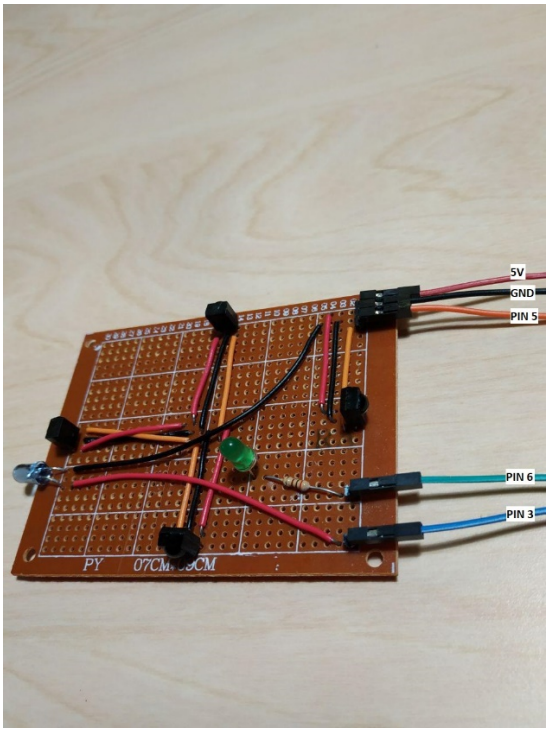


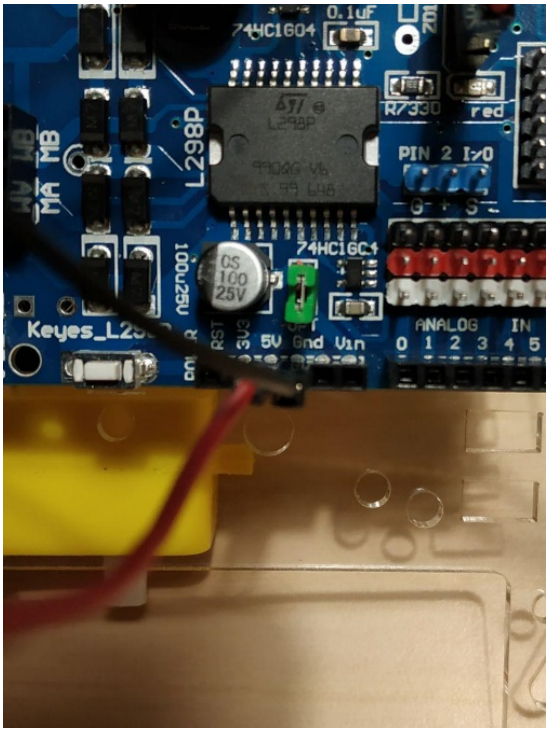
Step 7: Attach the Bluetooth module

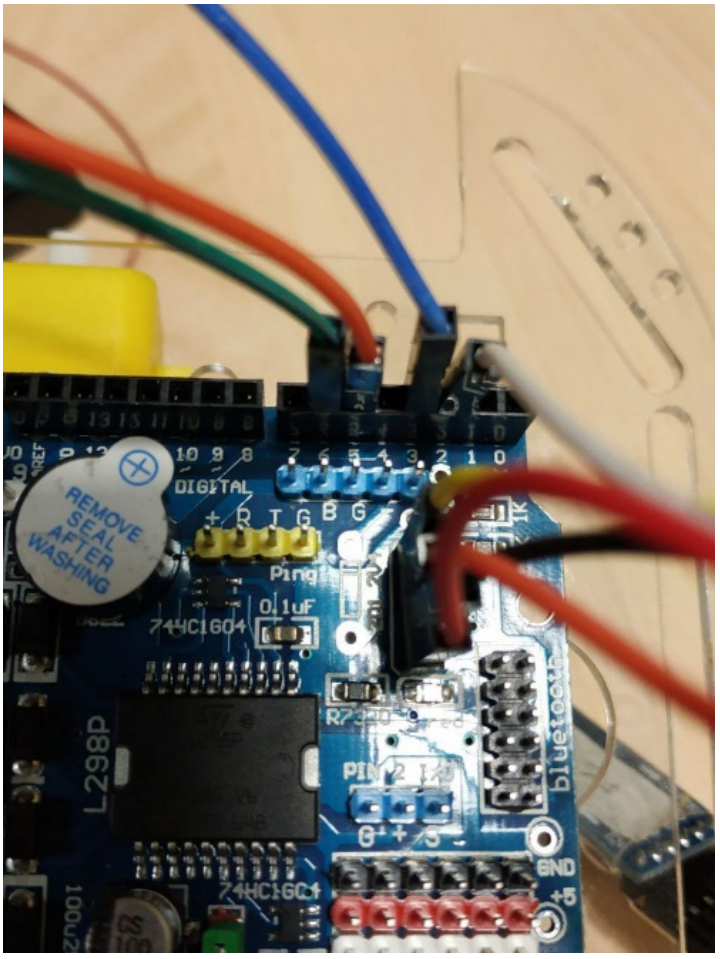


NOTE: Remove the Bluetooth module from the Motor Shield whenever you are loading codes onto the UNO

Step 8: Attach the IR emitter/receiver add-on:







Step 9: Add a wire from Pin 7 to RST.