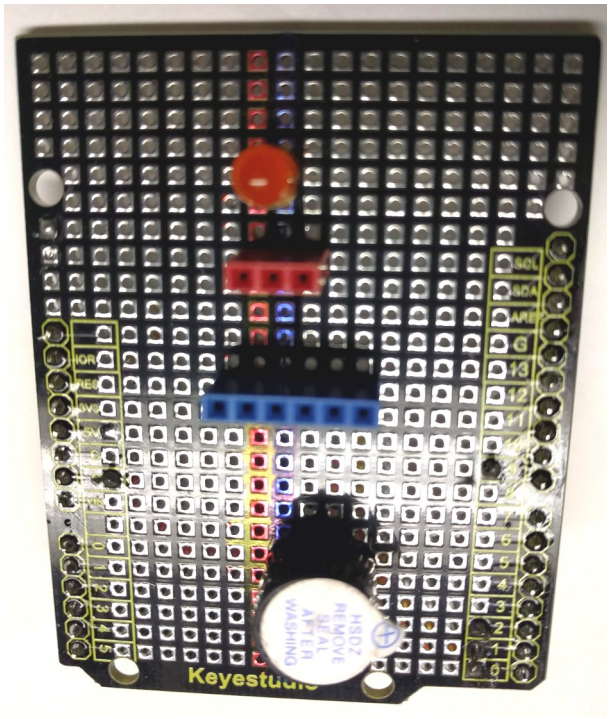
Pat's Infrared/ Bluetooth, 4WD Robot Buggy, Arduino Uno Shield

Pat McMahon V2 4/5/2023

Below are the 3 Step Photos, for the correct placement of the RED Infrared & BLUE Bluetooth Header Sockets, Buzzer and LED with Resistor, on an Arduino Uno Shield.

NOTE- I have drawn RED lines on both sides of the shield for the Positive Rail and Blue Lines for the Negative Rail , to try to assist correct alignment of components.



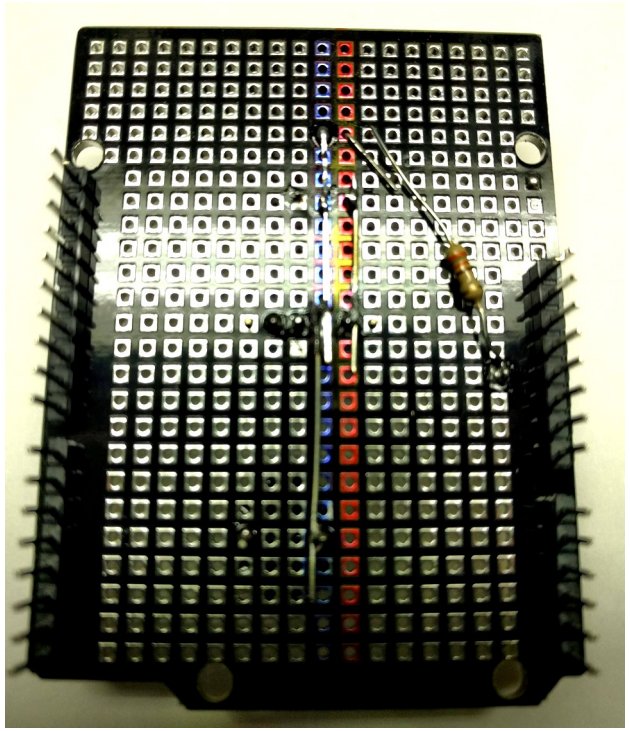
Top Front view – Components placed

Orange 5mm LED

RED 3 pin IR Header Socket

BLUE 6 pin BT Header Socket

5v Buzzer



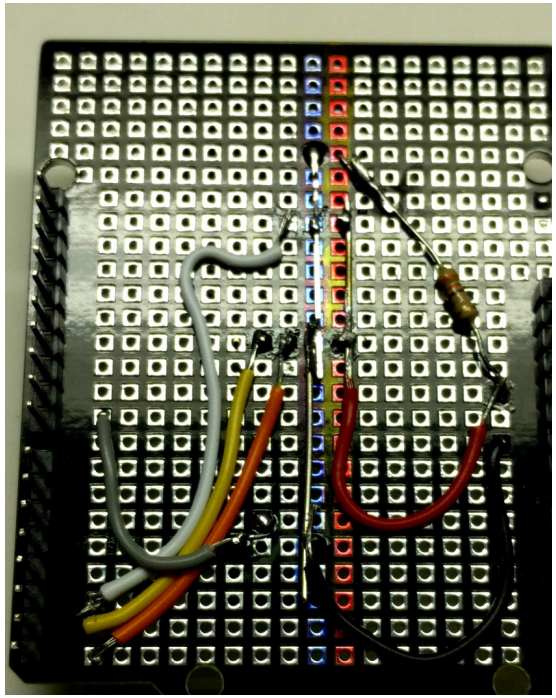
Underneath flipped view–

Components partially soldered to locate

Bend short —neg LED leg to 2nd left—IR & 4th left—BT, and extended wire from 4th left BT to —Buzzer.

Inserted wire 3rd left + IR to 5th left + BT

Inserted one end of 330R resistor to 5V



NOTE-

Bluetooth 1st and 6th left pins not used.

Add long leg up Uno Header pins, 6,8,8,10.

Underneath view– Solder Wires

Orange wire- 40mm to D0 & 3rd left on BT

Yellow wire - 40mm to D1 & 2nd left on BT

White wire - 60mm to D2 & 1st left on IR

Grey wire – 30mm to D11 & long +leg on Buzzer

Red wire—40mm to +5v & 5th left on BT, 3rd IR

Black wire - 50mm to Gnd & extended — wire

Floating 330R end to + leg LED