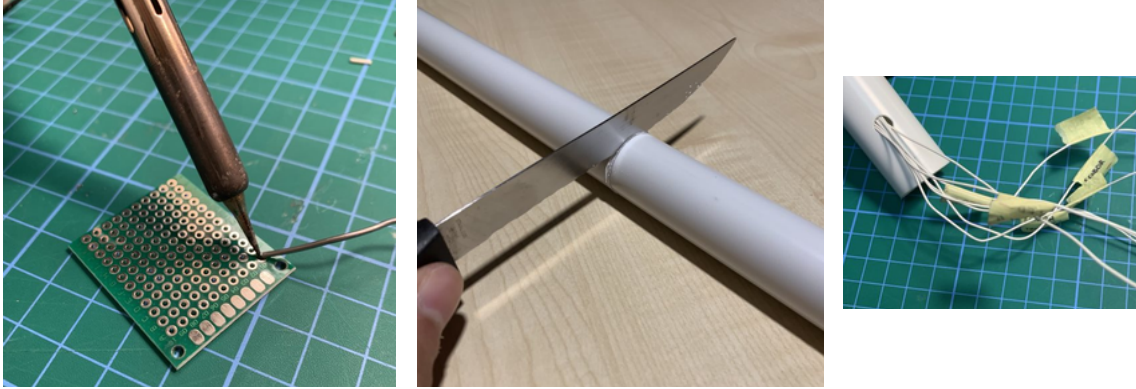


STEP 6 - BUILDING THE ELECTRONICS

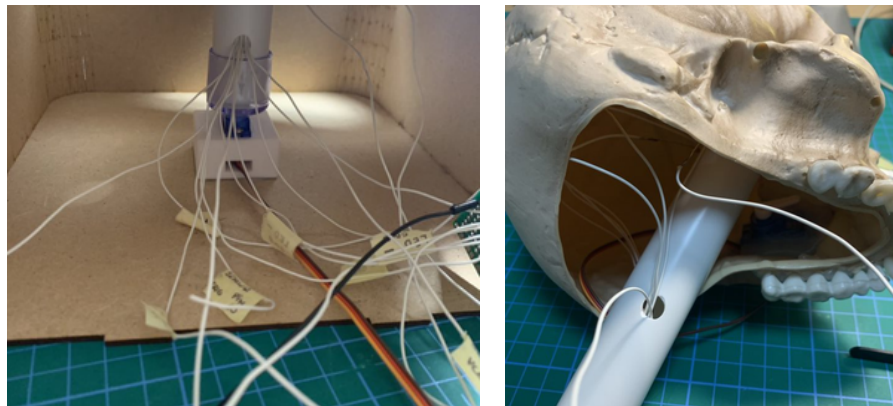
1

First, we soldered the pins of the LEDs to two 240Ω resistors and then, we soldered the whole assembly to their respective wires. At the same time, we repeated the same process (without resistors) with the proximity sensor. In the case of the servomotor of the mouth, it was not necessary to solder its wires, since it has a connector, we fit them directly. Then, we passed all this through the 30cm PVC tube (2.5cm diameter) so that it would be hidden.



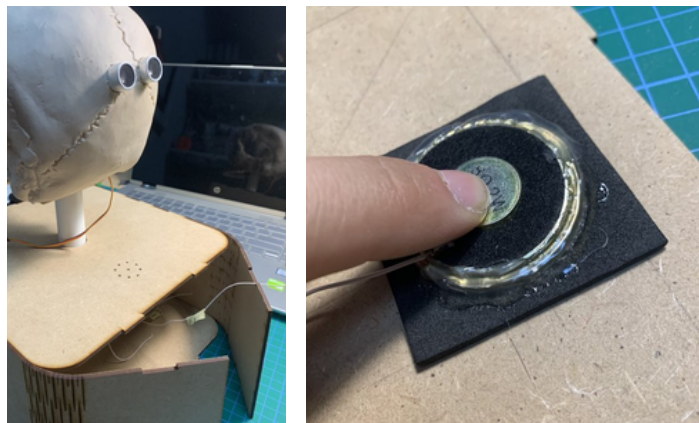
2

As for the head servomotor, since it is located at the base of the box and the cables were already placed inside it, it was only necessary to connect them in their corresponding place on the board.



3

In the case of the DF player, a small breadboard has been cut to size to solder the SD xip. Then, the corresponding wires that provide the 5V power supply and GND have been soldered at the points next to it. For the speaker, a piece of eva rubber was cut to the size of the speaker and glued to the box with the speaker on top.



4

Finally, all the elements have been connected to their respective pins as shown in the schematic above.