

MP3 RUNNER

- a prototype

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So far our prototyp is not completed so this guide only shows our concept on the running mp3-player and our first stpes in the design process.



The concept is a interactive shirt that helps you turn on and off, change song and turn up or down the volume on the mp3-player.

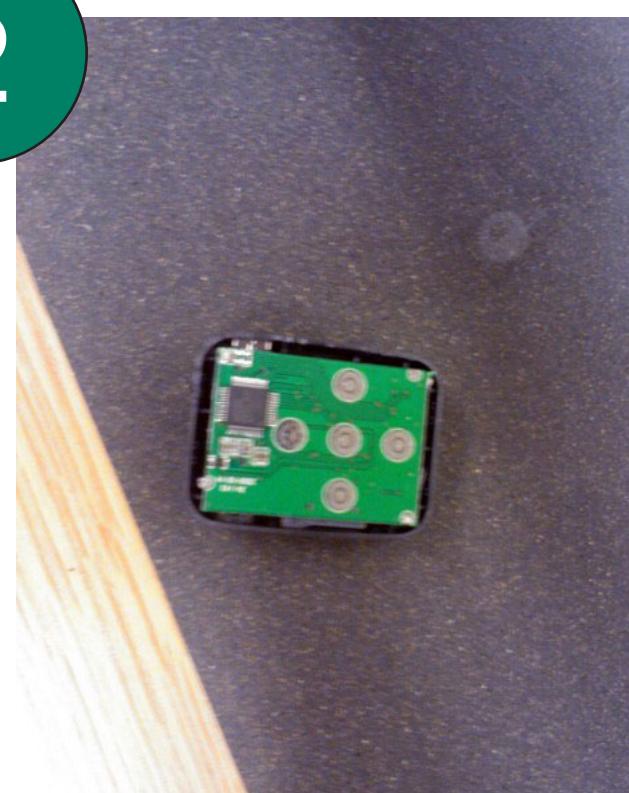
The idea is that when the buttons on the lower part of the shirt tough the conducted string in the middle the right action is executed.

Next part of this guide shows the seps we have preformed.

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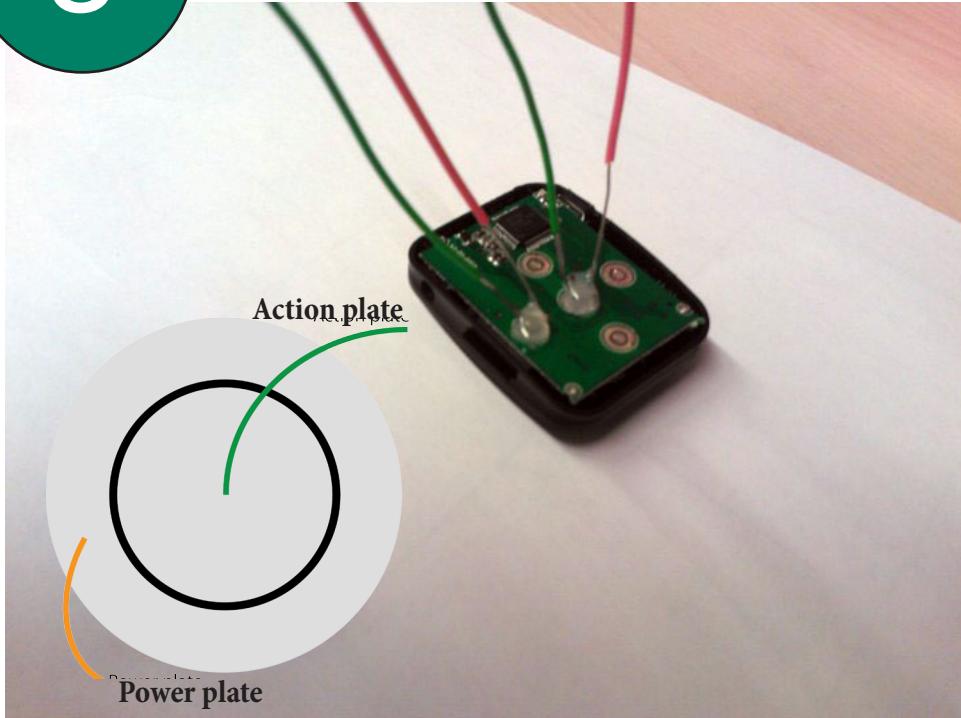


The first thing we did was to remove the plastic shield from the mp3 - player.

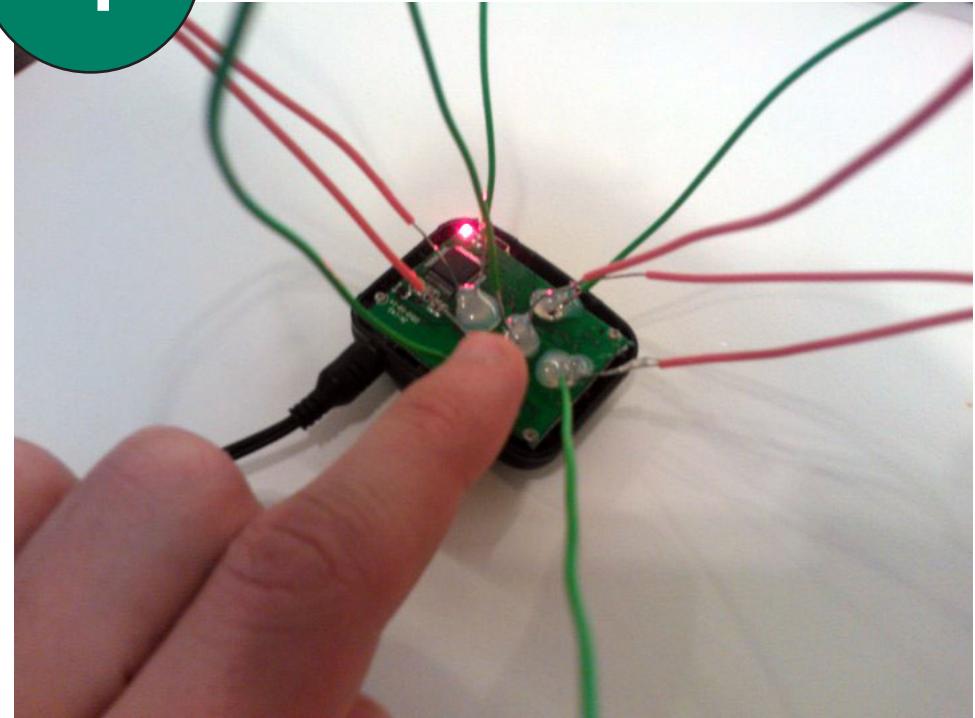
The mp3 player we used have five buttons, one for play, one for volume and one for rewind and one to go to the next song.

The buttons on the mp3 player have an inner and an outer circle. To make the buttons connect we solder one thin cable to the inner circle and one cable to the outer circle on every button.

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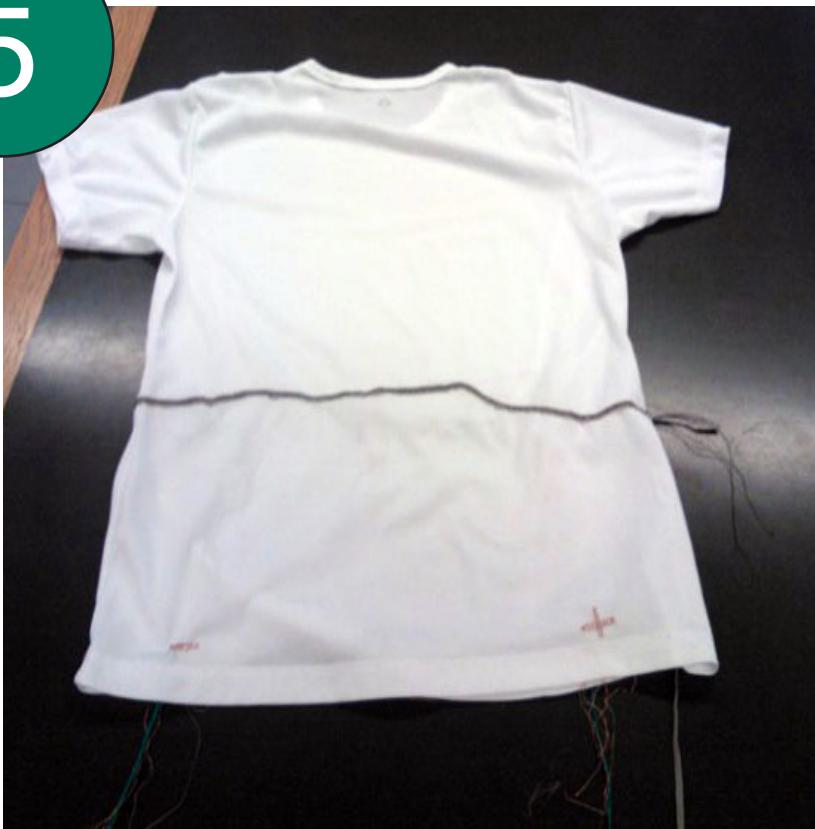


In the picture you see the cables soldered to the mp3 player.

One thing we realized (to late) is that you only needed to connect one cable to the power source. (So, you don't need to solder a cable to every power source, as we have done in the picture. It is enough to solder the power cable to the outer circle in the middle (play button) and that cable works with all the other green cables.)

We put glue on the soldered parts of the mp3 player to make more robust because the metal plates were very vulnerable.

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To make the running shirt we used a white sport T-shirt.

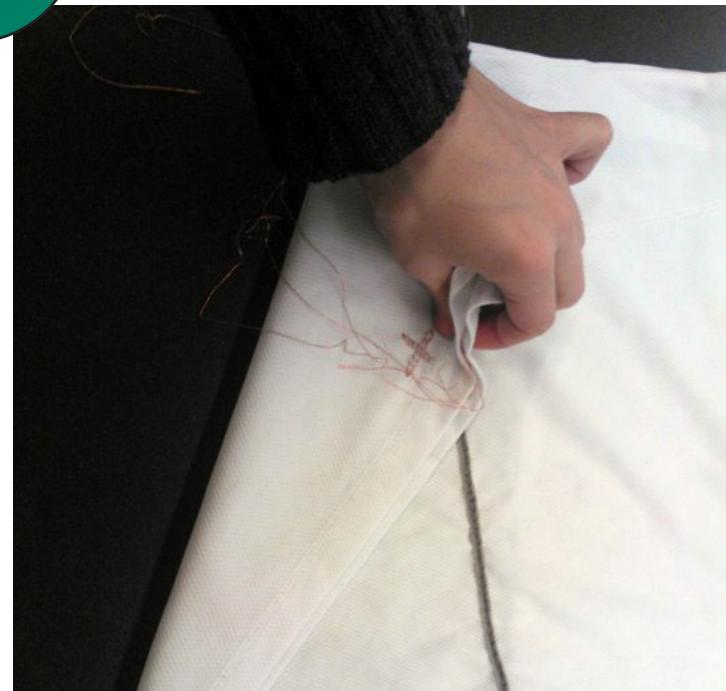
In the bottom of the shirt we used copper thread to make the buttons conductive.

The copper thread was extremely conductive which makes it important that the thread from different buttons not bump into each other.

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In the middle of the shirt we used saw a conductive string to connect to the power plate.

To try if our idea worked we used alligator clips.

With the alligator clip we got the mp3-play buttons to work when the copper thread was pressed against the connected string.

Our next mission is to design how we should include the mp3-player into the shirt and make it work without the alligator clips in a nice way.