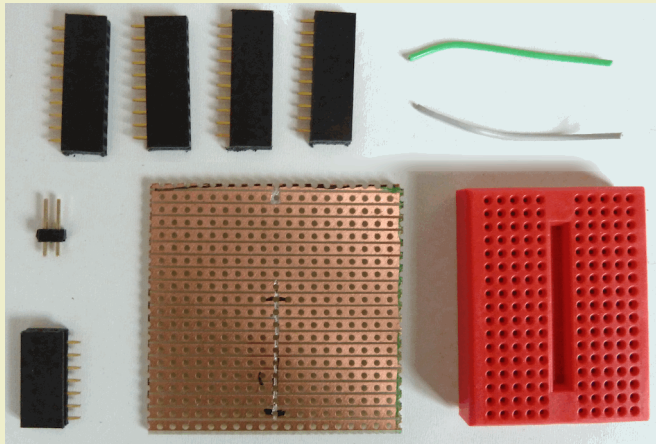


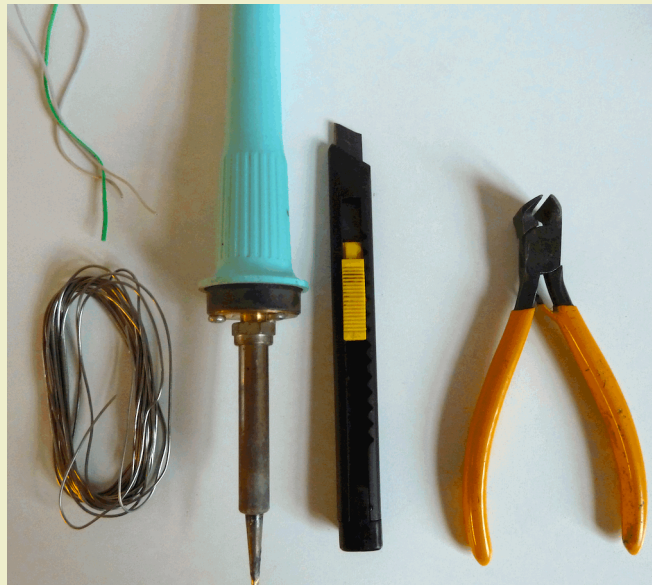
# How to build a 'Hardware Explorer' for the MSP430 Launchpad

## Materials

- 1x experimental board: strip grid 0.1 inch raster, 5x5cm=19x19holes
- 4x 10pin female header strip
- 1x 7pin female header strip
- 1x 2pin male header strip
- 1x mini breadboard (35x47x8.5mm)




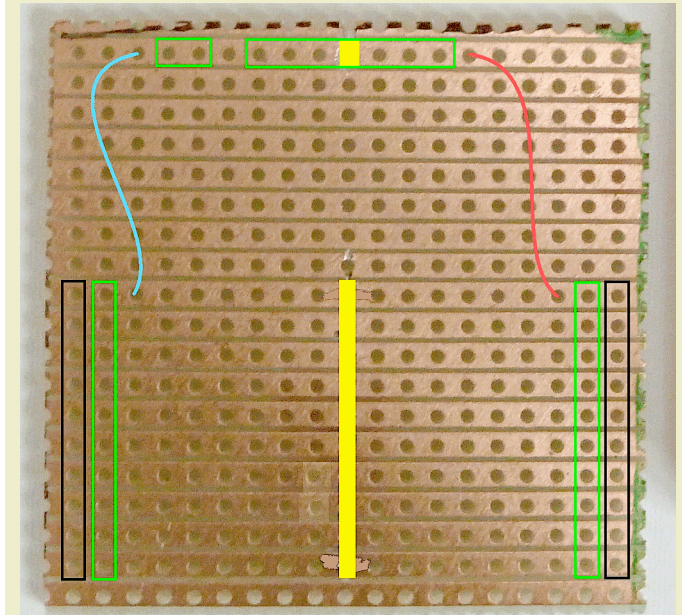
## Tools


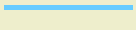
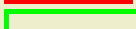
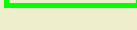


- a few pieces of wire
- some solder
- soldering iron
- utility knife with snap-off
- side cutter

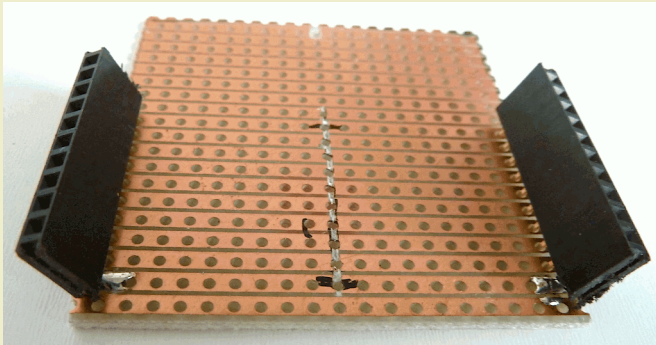
## Prepare the backside

Cut or clip the experimental board to size and remove the metal at the yellow marks 



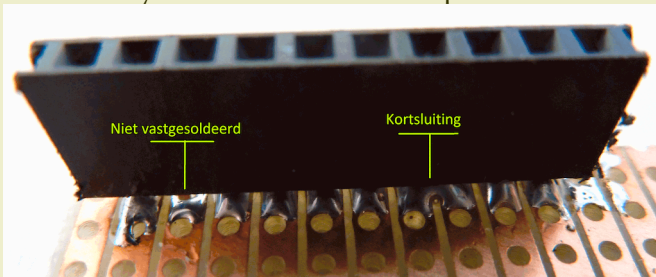
-  10pin connectors
-  power supply wires
-  connectors at the other side
- 

## Solder the 10pin connectors at the backside



Start with one pin, put the connector upright (while warming the solder) and also solder the pin at the other end of the connector. Test if the board fits on the Launchpad, then finally solder all the pins.

Redress any short circuit or interruption.



interruption

short circuit

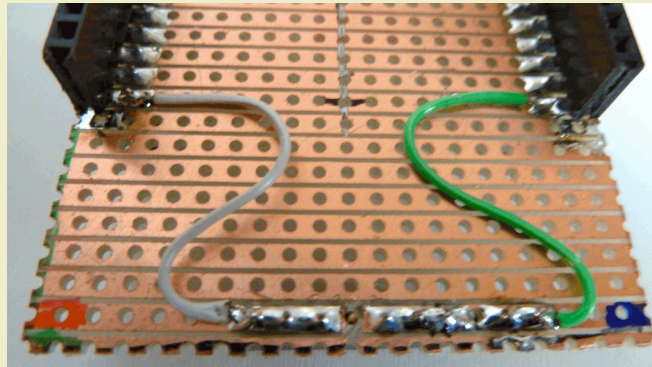
## Frontside connectors

Prick the 10pin connectors in the second row from the edge (frontside) and solder them at the backside. Start with one pin, etc..

Do the same with the 7pin power connector and the 2pin male connector.

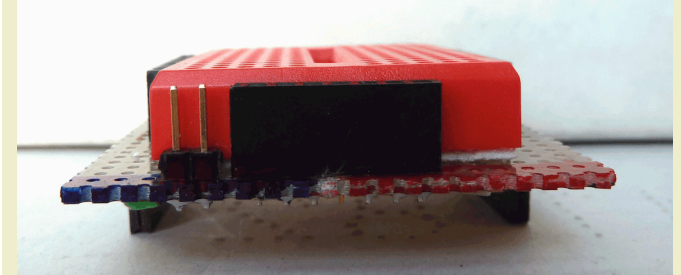
## Back to backside

Solder the wires for power supply .  
Again redress any short circuit or interruption.

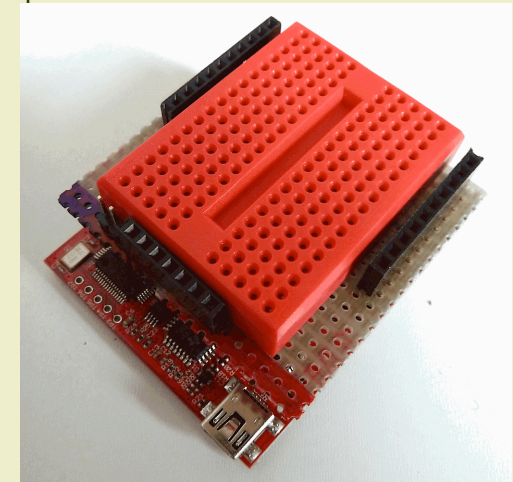


## Ready!

Put the mini breadboard on the board (there is tape on the breadboard) and your 'Hardware Explorer' is ready.



Put the Hardware Explorer on top of the Launchpad.



web site