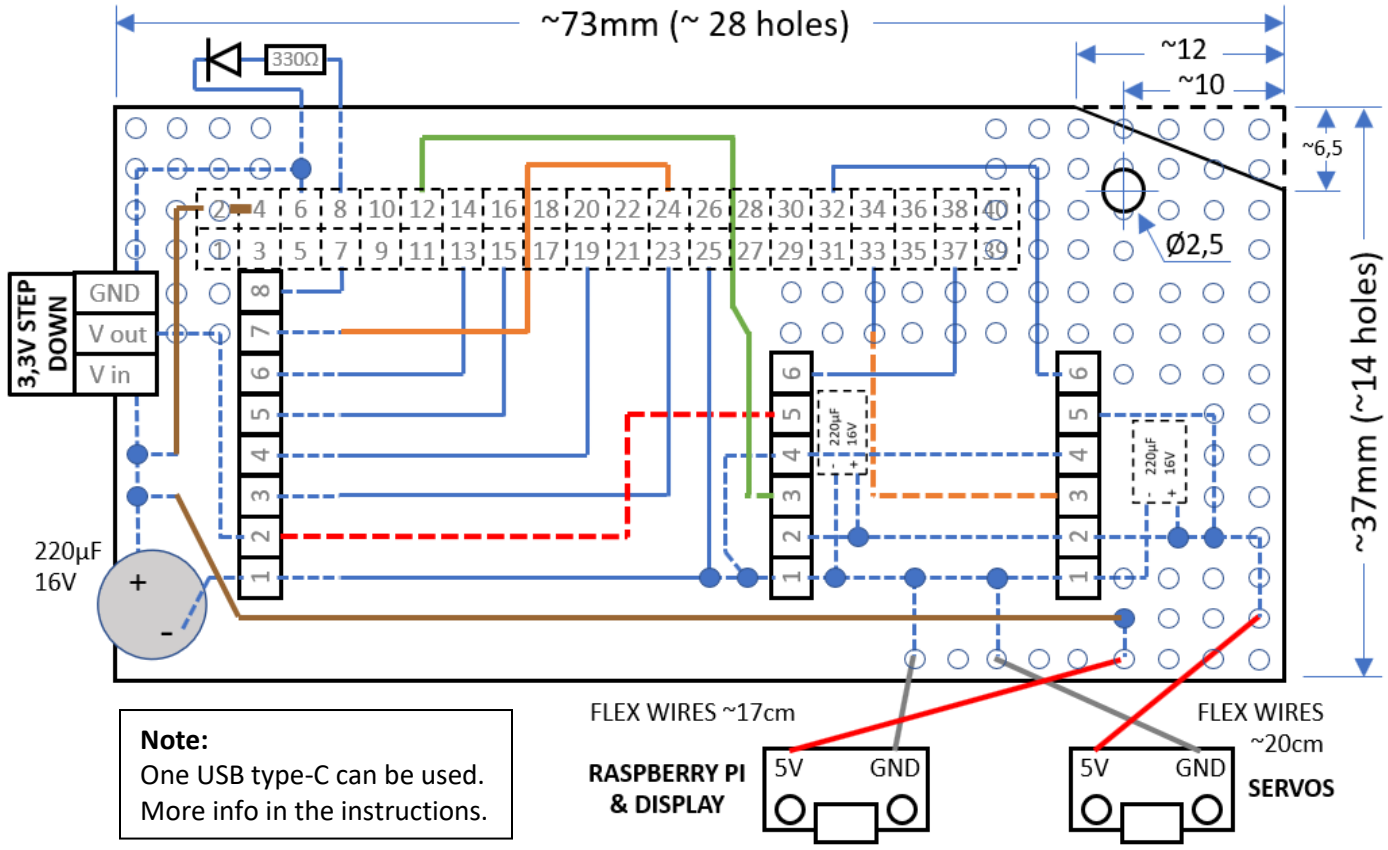
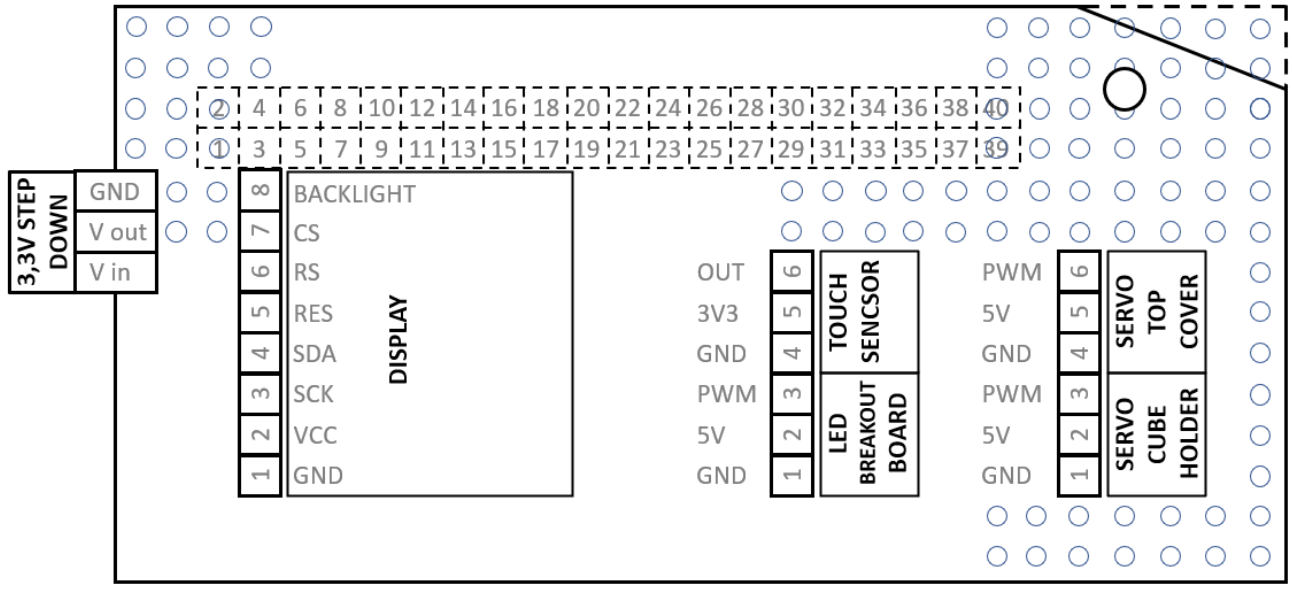
Cubotino autonomous, connections board:

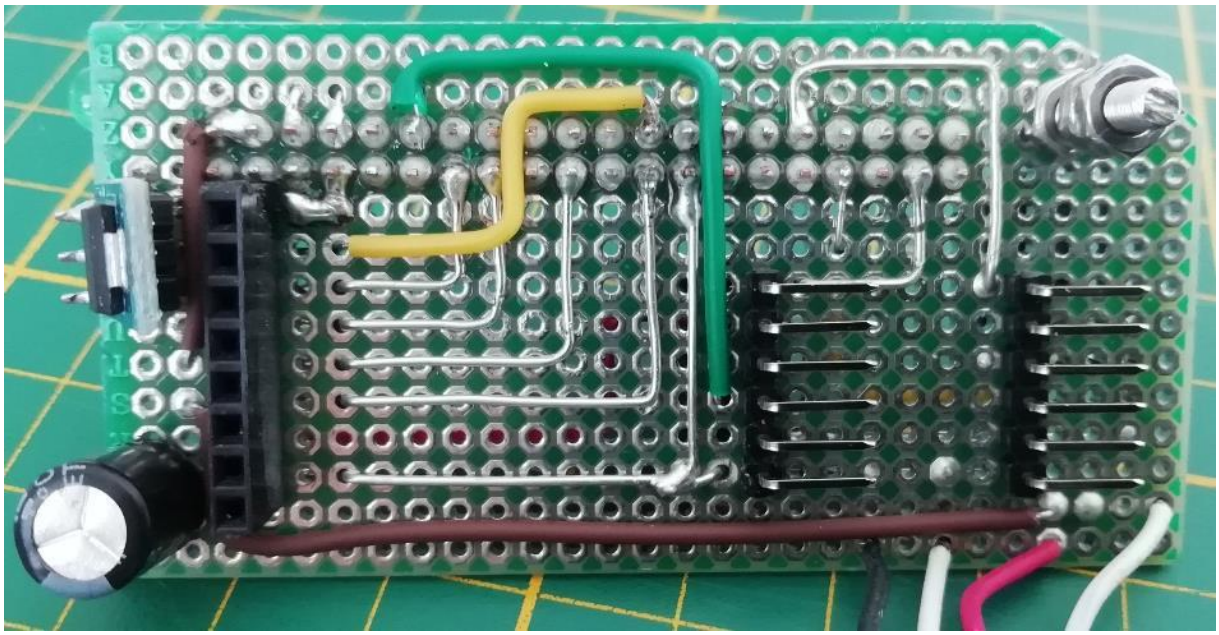
Front view (the 2x20 header is on the opposite side):

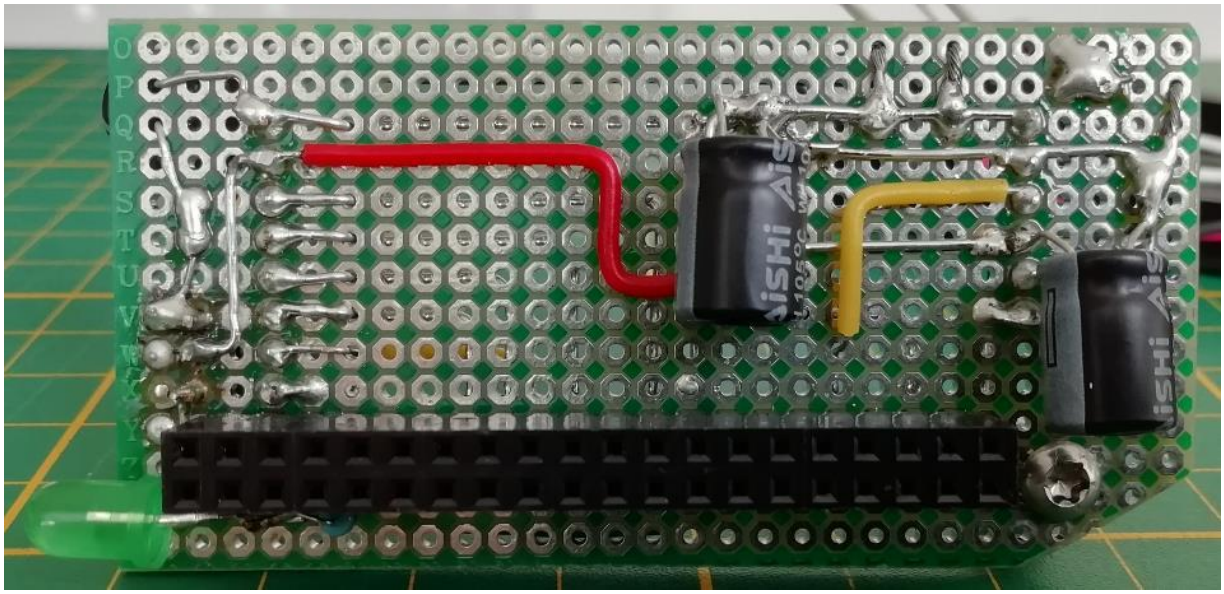


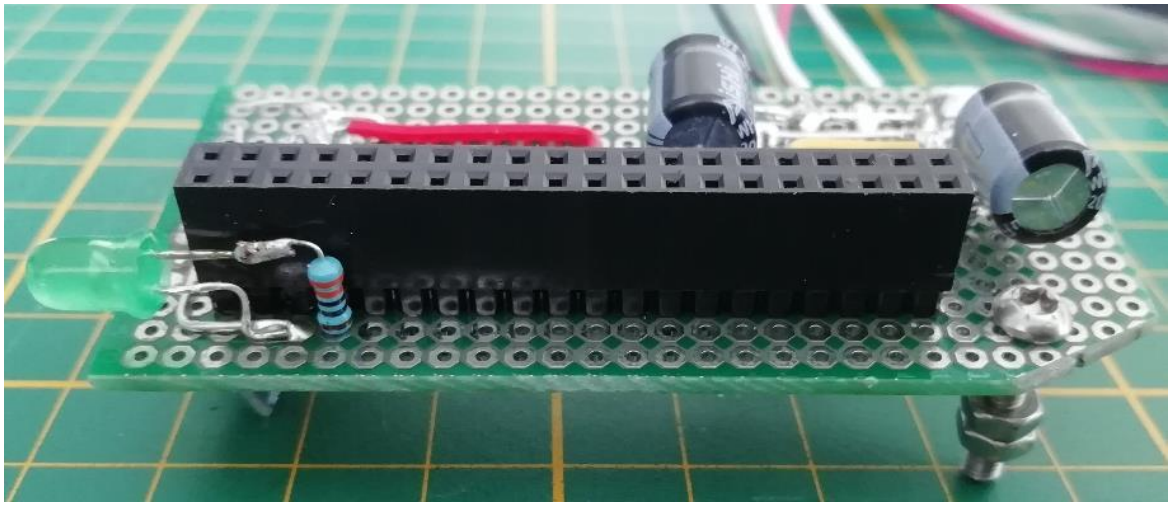


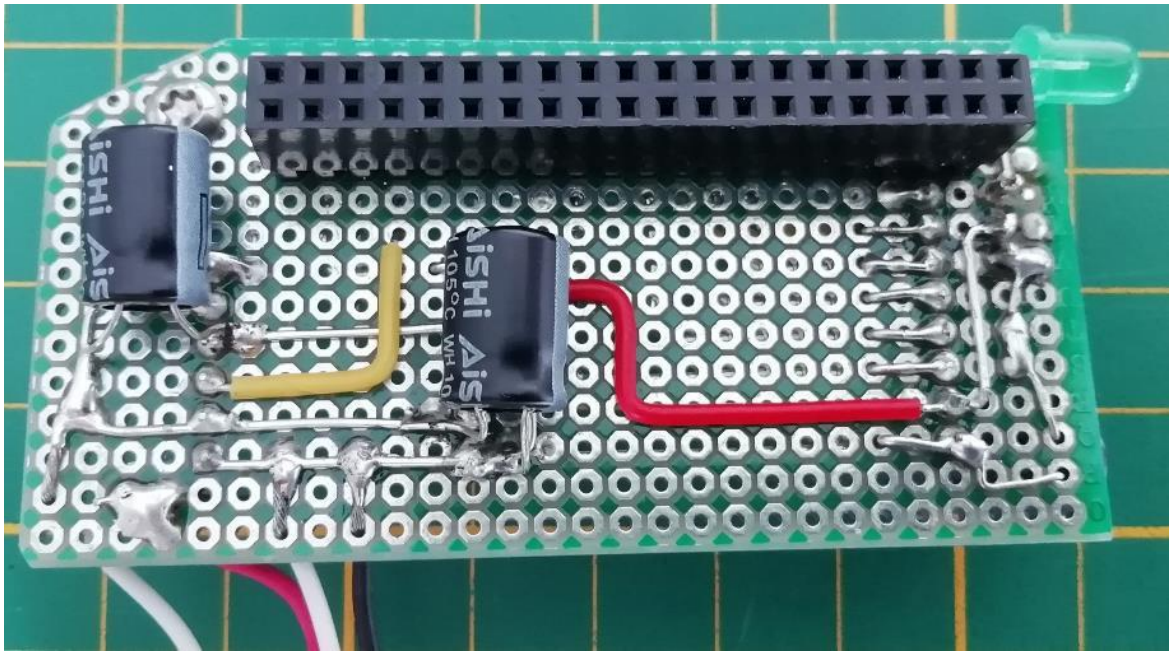
Notes:

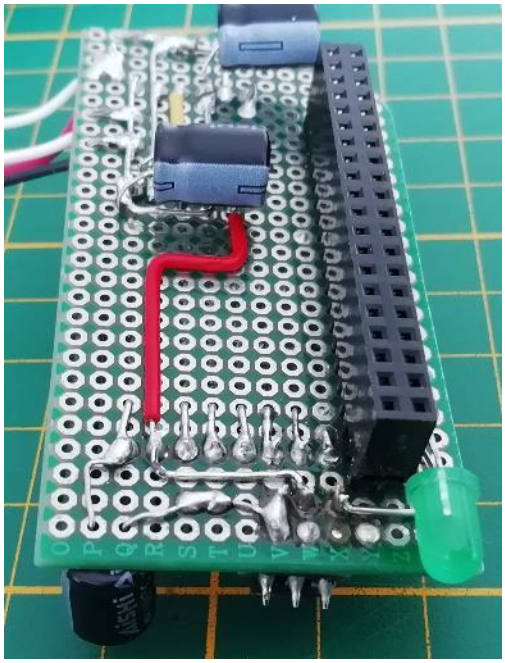
1. The prototype board should be of a double face type.
2. Cut the board and the “top right” corner.
3. Start by positioning the 2x20 header, at 3rd hole from the corner.
4. Count the holes for the other parts positioning.
5. Dashed lines for parts/wires on the opposite side.
6. Blue lines are wires without insulation.
7. Red, Brown, Orange and Green lines are insulated wires.
8. Use insulated wires when crossing other lines, also when these are on the board opposite side.
9. Filled dots are connections.
10. 15mm is the max height for the 3V3 step down board, and the capacitor close to the display connector.
11. Ø2,5mm hole is for a M2,5mm bolt (and 3 nuts) to support the display. The highest nut should be at ~15.5mm from the board surface.
12. Add the last 2 capacitors, close to the servo connectors, once the board has been tested.











microUSB breakout board:
Wire soldering orientation