

# Assembly and Testing

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### Overview

The assembly and testing of self-designed PCBs requires some extra equipment. Much of this has already been thought out on the [Rapid Prototyping Elektronik](#) page and in particular on the [associated spreadsheet/list](#). I would like repeat some of the recommended items here. Another good reference for this is the [Soldering Workshop](#) presented by Binary Kitchen, Regensburg.

### The kit for each attendee

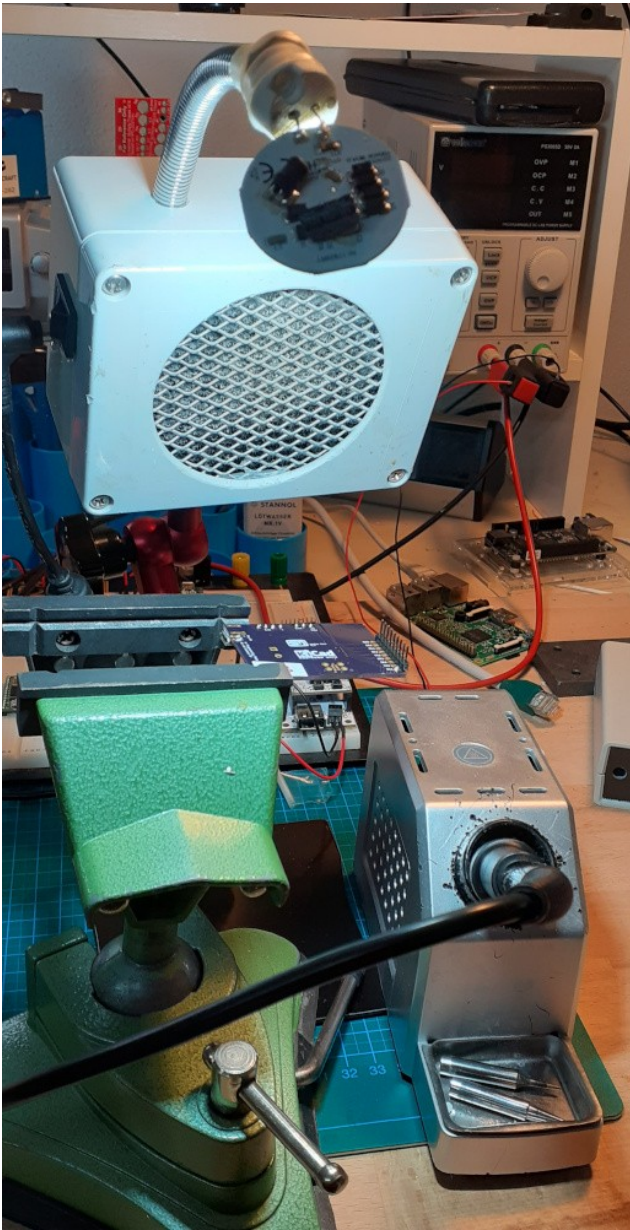
- Lötstation
- Löt
- Schutzbrille
- Lötrauchabsaugung
- Metallschwamm
- Seitenschneider
- Pinzetten
- Drittehand
- Entlötpumpe und Entlötlitze
- ESD matte
- Lampe.

### Advanced Gear

- Heißluftlötstation
- Reflow-ofen

Some of this equipment is already in ZAM. However, there is not enough to run any type of soldering workshop and the safety equipment is as yet not available - solder fumes extractor and safety glasses.

We could build our own Solder fume extractor. Binary kitchen have [theirs as a kit](#). There are plenty of other examples on the [Thingiverse](#). In my case, I created one from a PC cooling fan, an off-the-shelf case, a 12 V LED lamp and a flexible hose from a fire-lighter. I imagine we could come up with something in the middle.



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