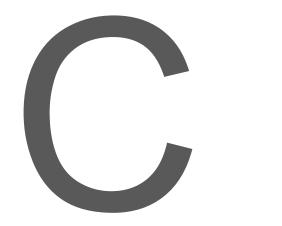
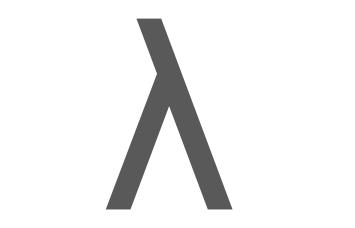
# A journey to the hardware world

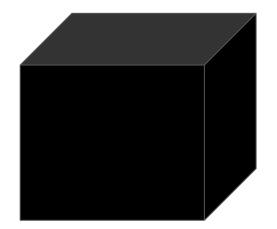
A software engineer retrospective

2023-02-04

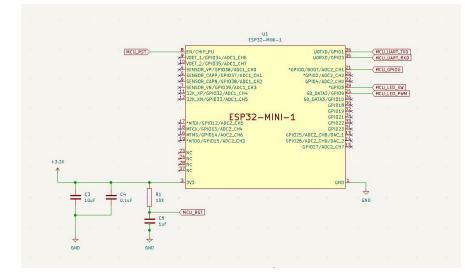
Mathieu Othacehe <othacehe@gnu.org>







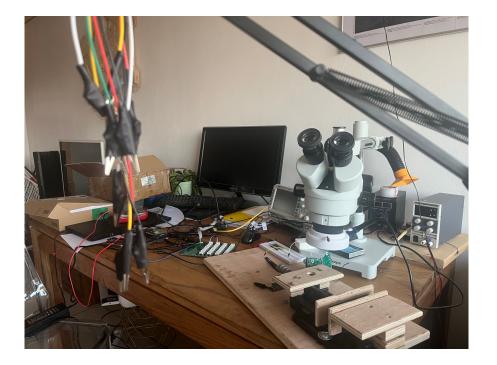
### Hardware repair and microsoldering



#### **Schematics**

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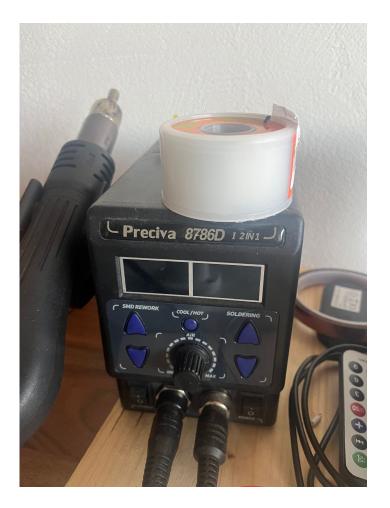
# Buy a few tools



# Microscope



# Soldering iron



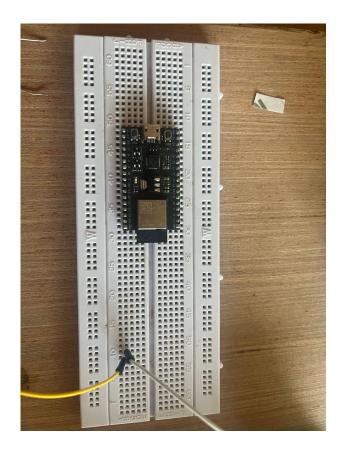
#### Hot air station



#### Generator



# Oscilloscope



#### Breadboard



# R, C, L



## Multimeter



## Flux



# Solder wick



### Tweezers



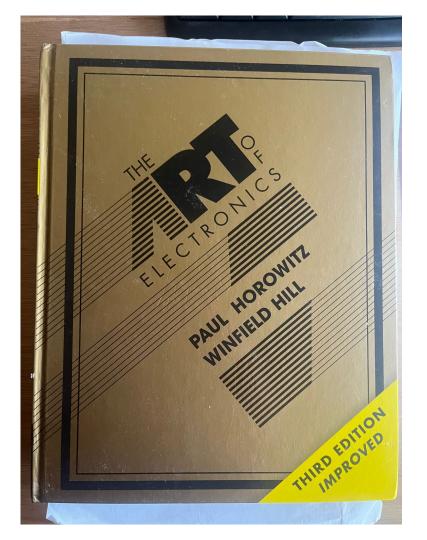
#### Perfboard



#### Wires



### RLC meter



#### The art of electronics



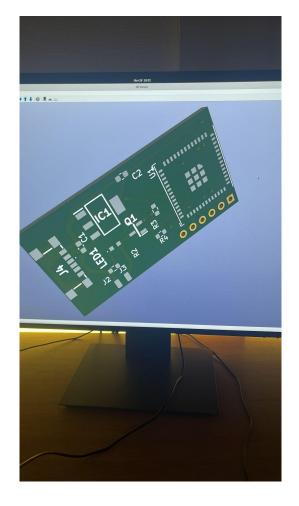
Flash memory programming device



# Few repairs



## Hack a BIOS



#### Kicad / LibreCAD

## That's it