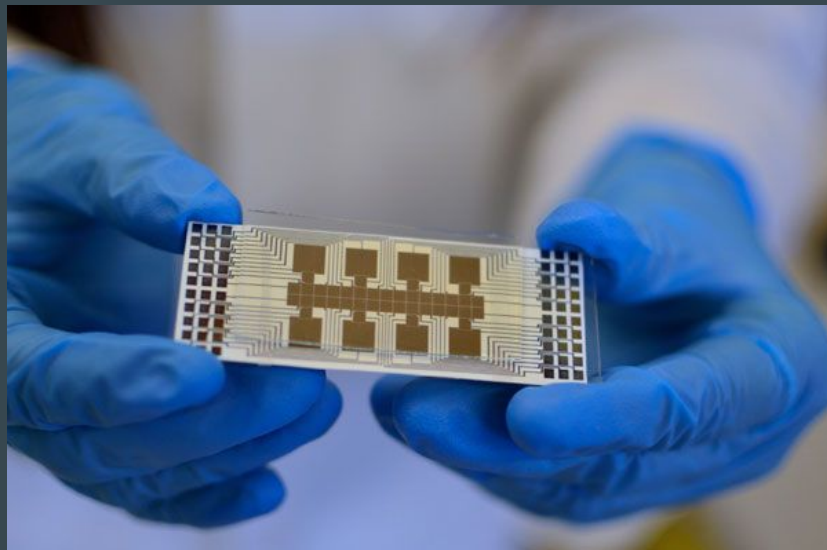
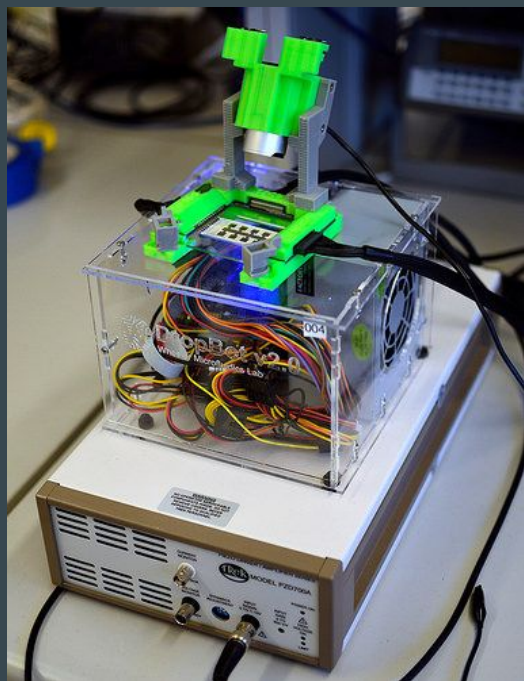


digi  
bio

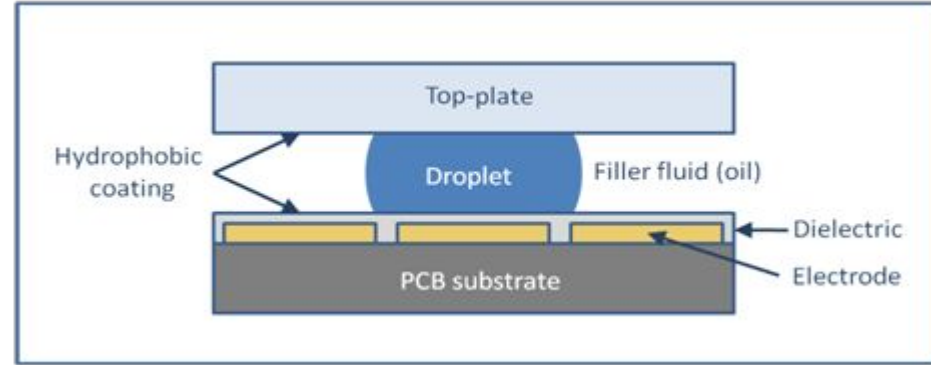


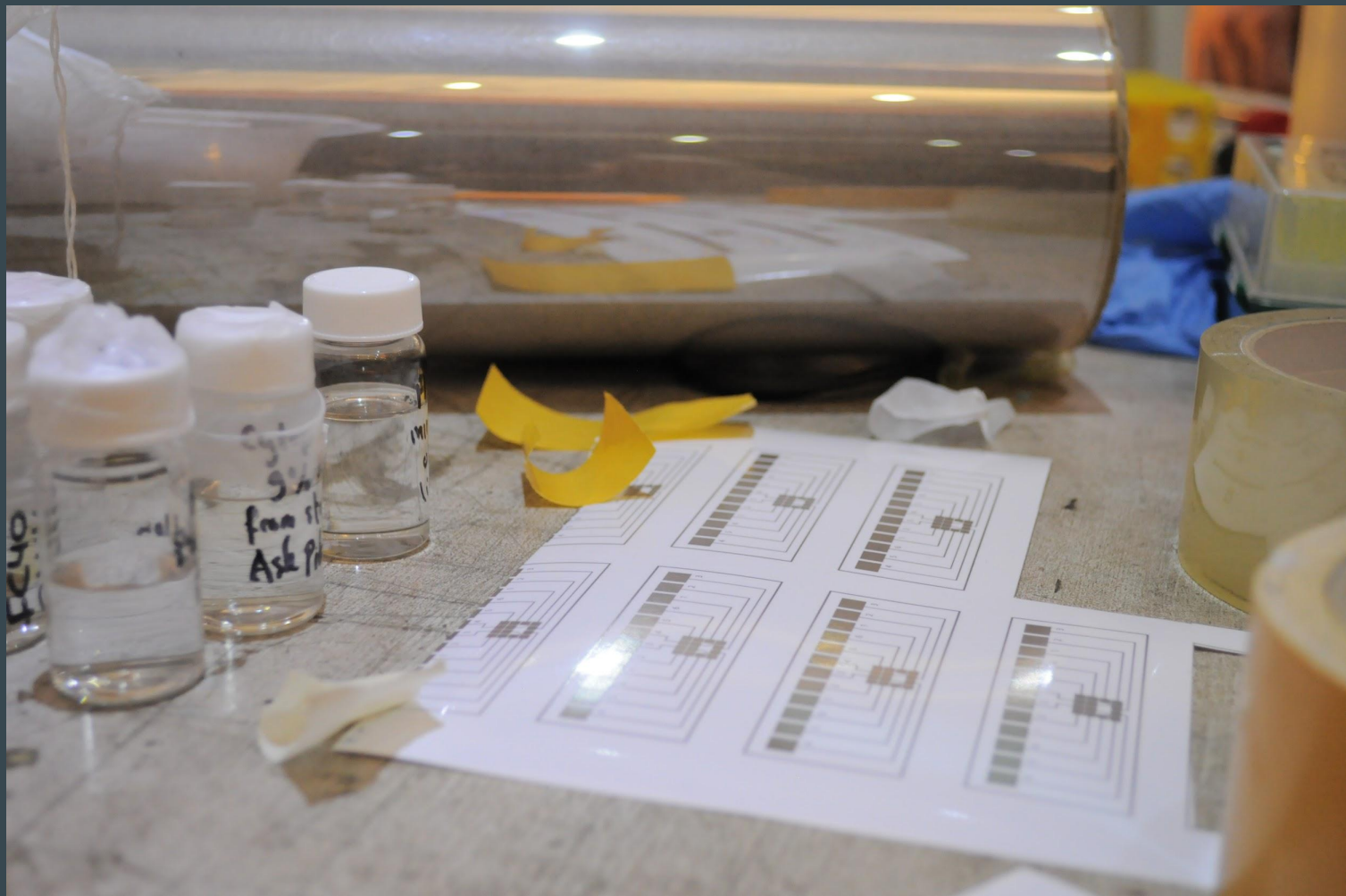
# digital microfluidics

Alternative technology for lab-on-a-chip systems based upon micromanipulation of discrete droplets.

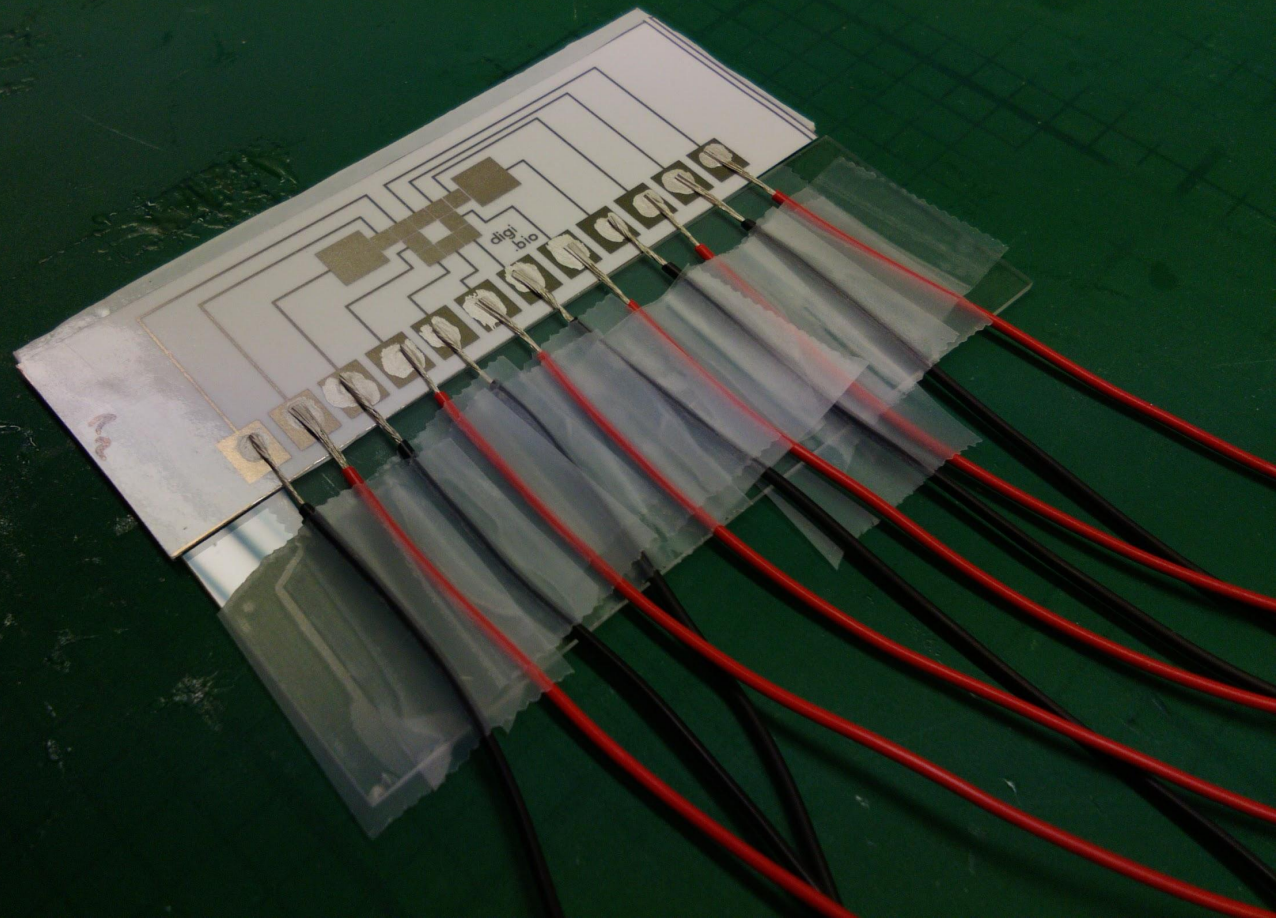
Microfluidic processing is performed on unit-sized packets of fluid which are transported, stored, mixed, reacted, or analyzed in a discrete manner using a standard set of basic instructions.

source: [https://en.wikipedia.org/wiki/Digital\\_microfluidics](https://en.wikipedia.org/wiki/Digital_microfluidics)





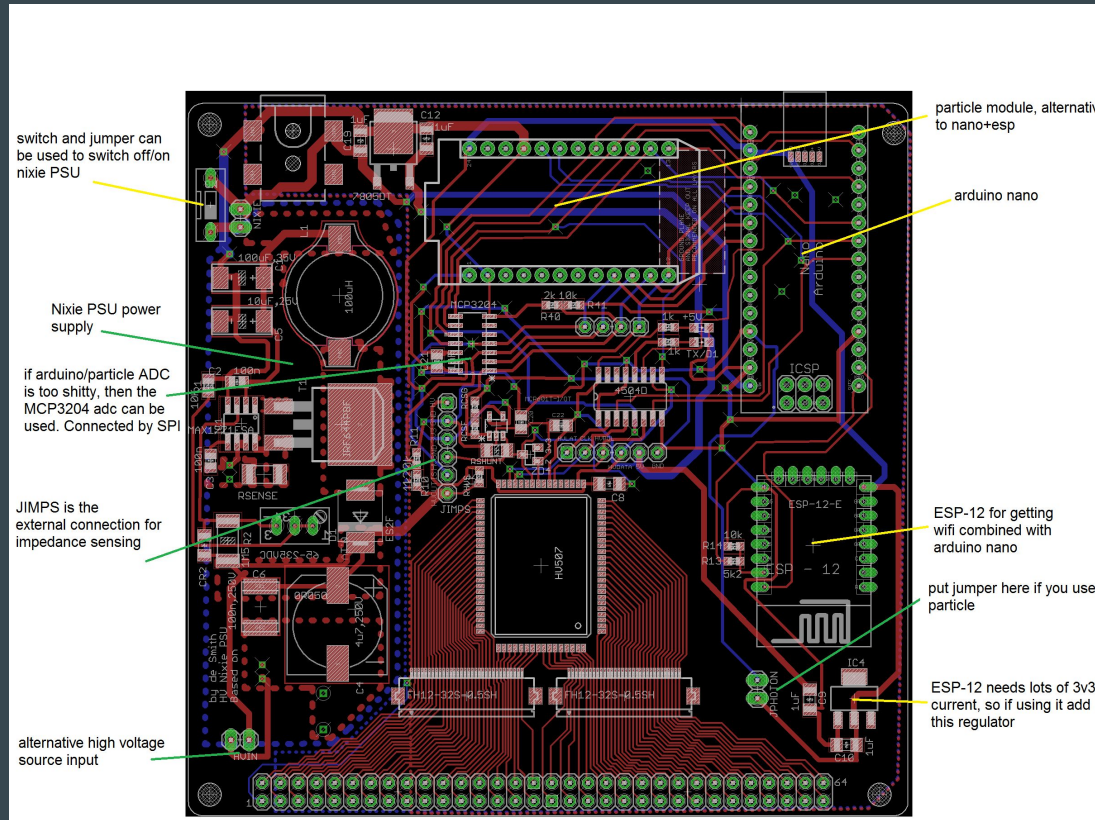






# the hardware

- nixie buck boost converter
- microcontroller + wifi (Particle photon)
- 64 channel HV serial to parallel converter





# the software

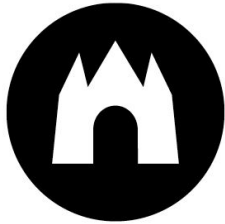
- mqtt interface
- web based control server



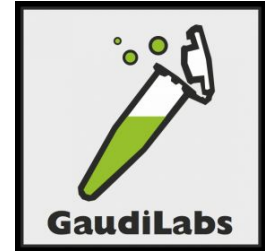
# Frogger game, another application



in collaboration with



**waag society**



**UNIVERSITY OF TWENTE.**



***OpenDrop***

**HACKTERIA**

digi  
.bio

wanna  
know  
more?



[frido@digibio.org](mailto:frido@digibio.org)



[@digi\\_bio](https://twitter.com/digi_bio)

