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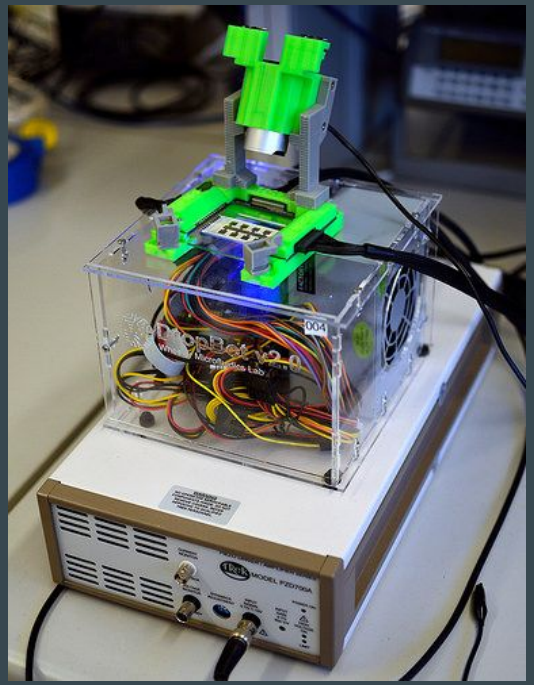
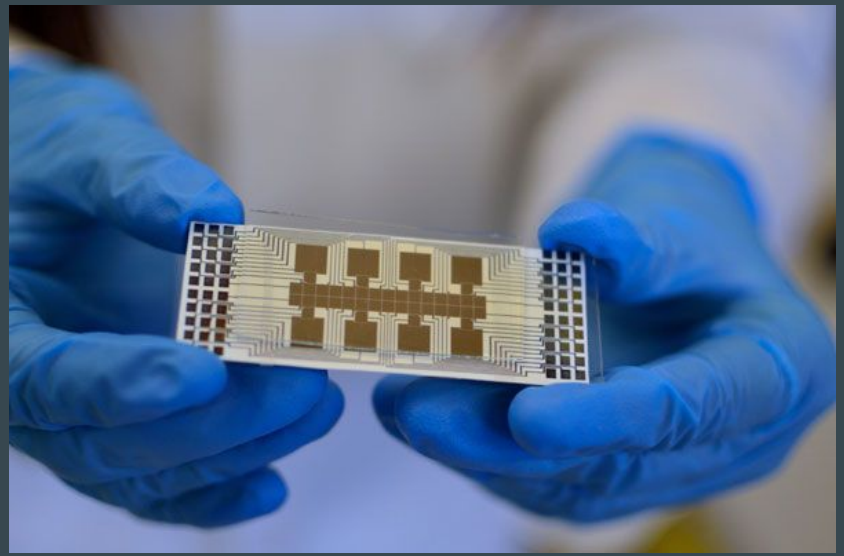


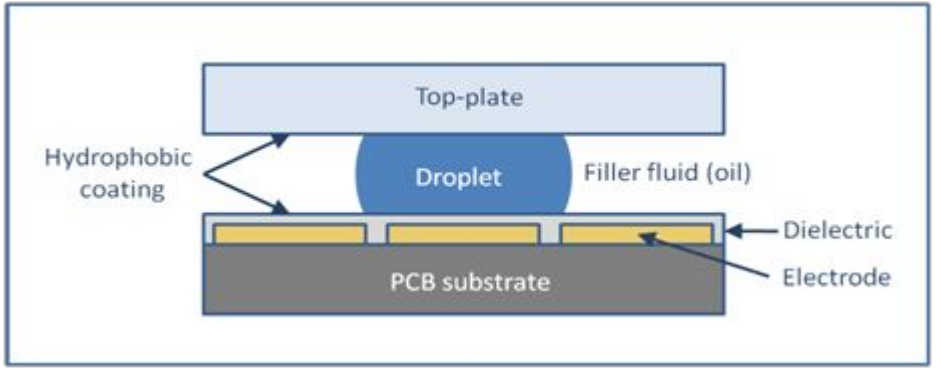


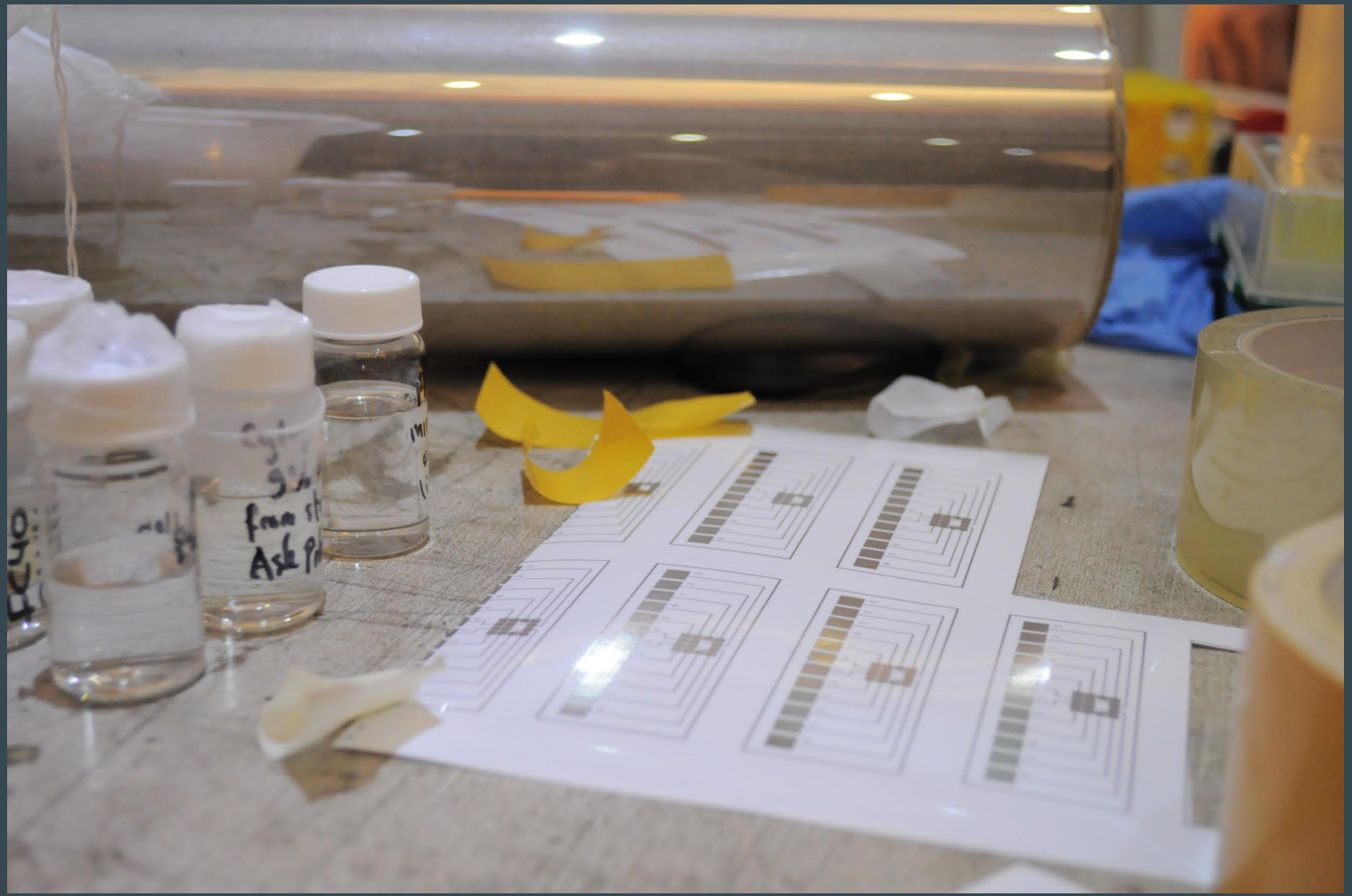
digital microfluidics

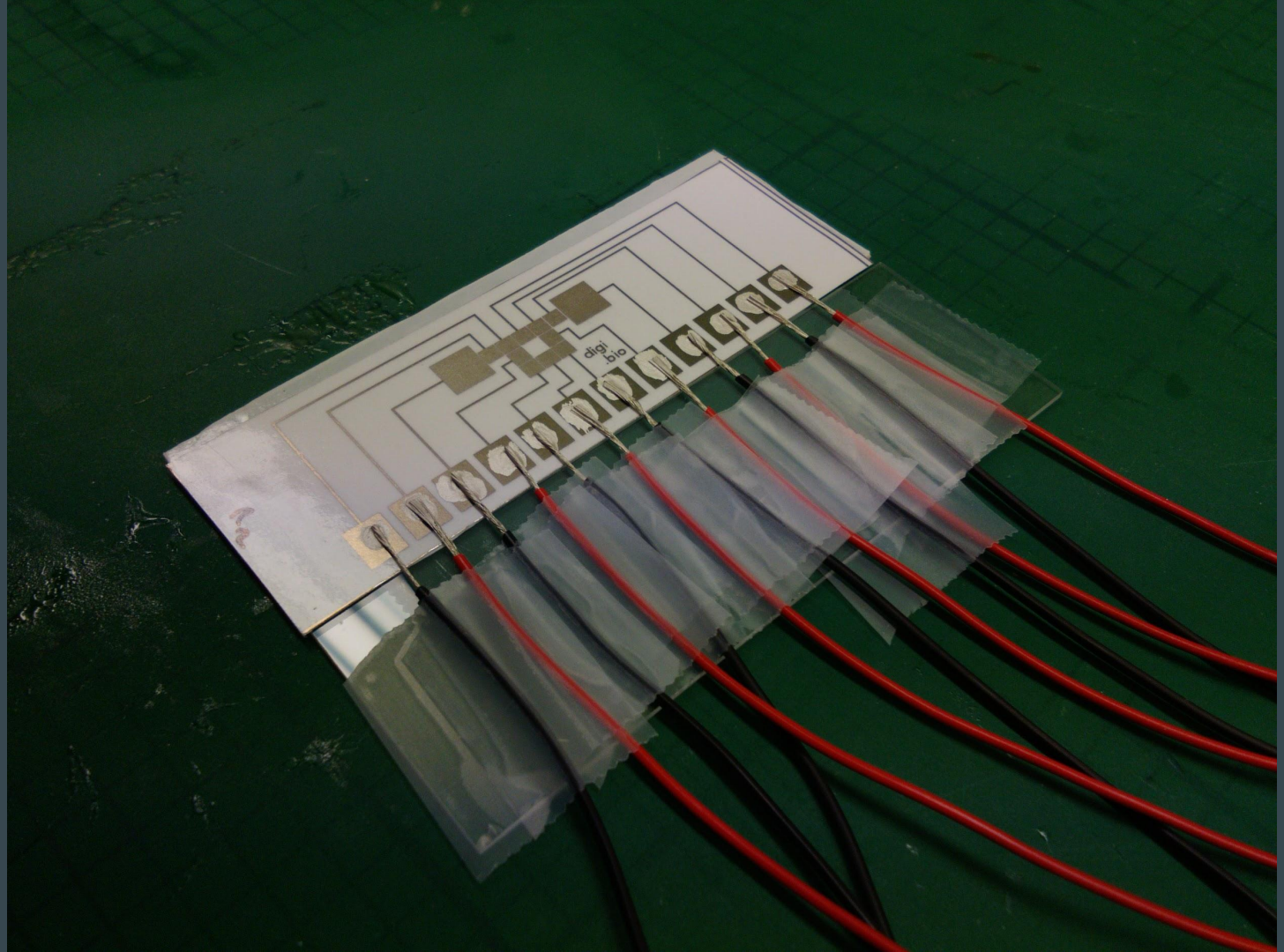
Aternative technology for lab-on-a-chip systems based upon micromanipulation of discrete droplets.

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



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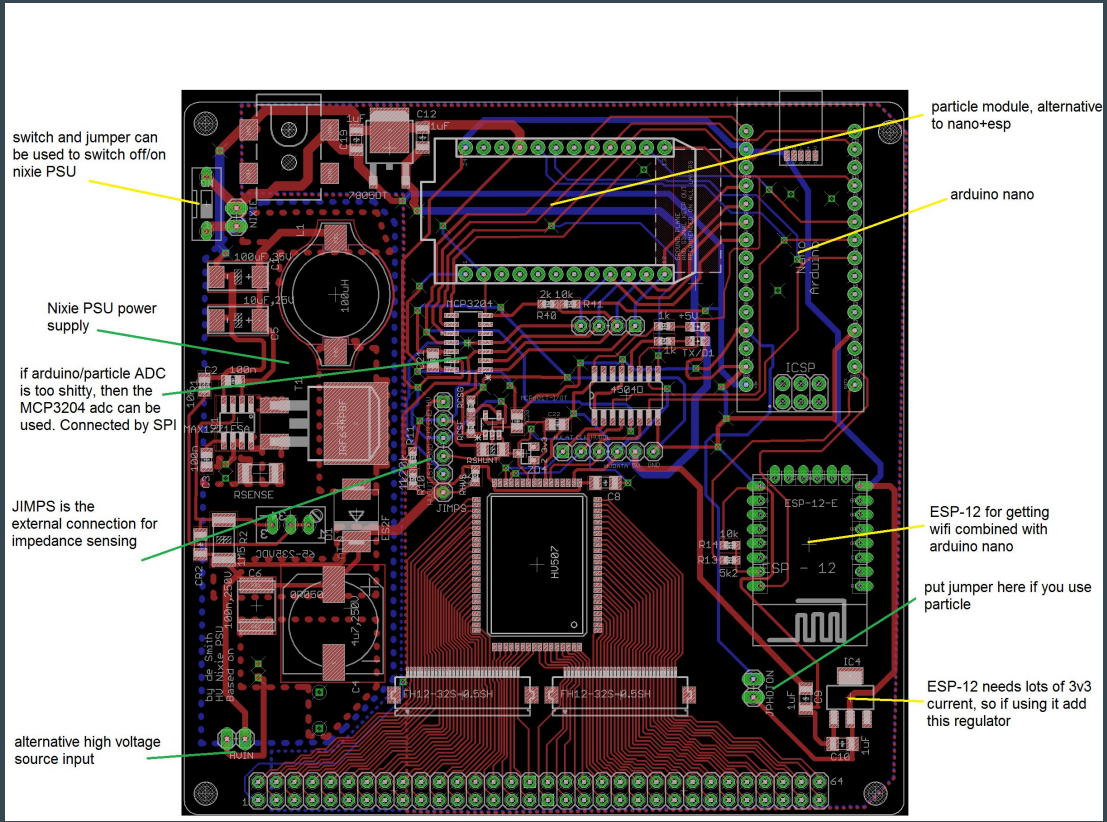
the hardware

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



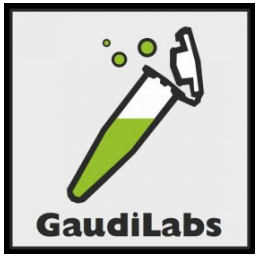
based on GaudiLabs work

the software

- mqtt interface
- web based control server

Frogger game, another application

in collaboration with



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