

I2C OLED Display

- 0.96 Inch 4Pin Blue Yellow IIC I2C OLED Display
 - Es lo mismo, solo que parte la pantalla en dos colores
 - Usa librería SSD1306 → https://github.com/adafruit/Adafruit_SSD1306/
 - Driver chip → <https://cdn-shop.adafruit.com/datasheets/SSD1306.pdf>
- <https://www.instructables.com/id/Fun-With-OLED-Display-and-Arduino/>
- <https://learn.sparkfun.com/tutorials/i2c>
- <http://www.i2c-bus.org/>
- Processor nxp mlk16z128vlh4 → <https://www.nxp.com/part/MKL16Z128VLH4>
- Datasheet nxp mlk16z128vlh4 → <https://www.nxp.com/docs/en/data-sheet/KL16P64M48SF5.pdf>
- Pinout página 45 datasheet

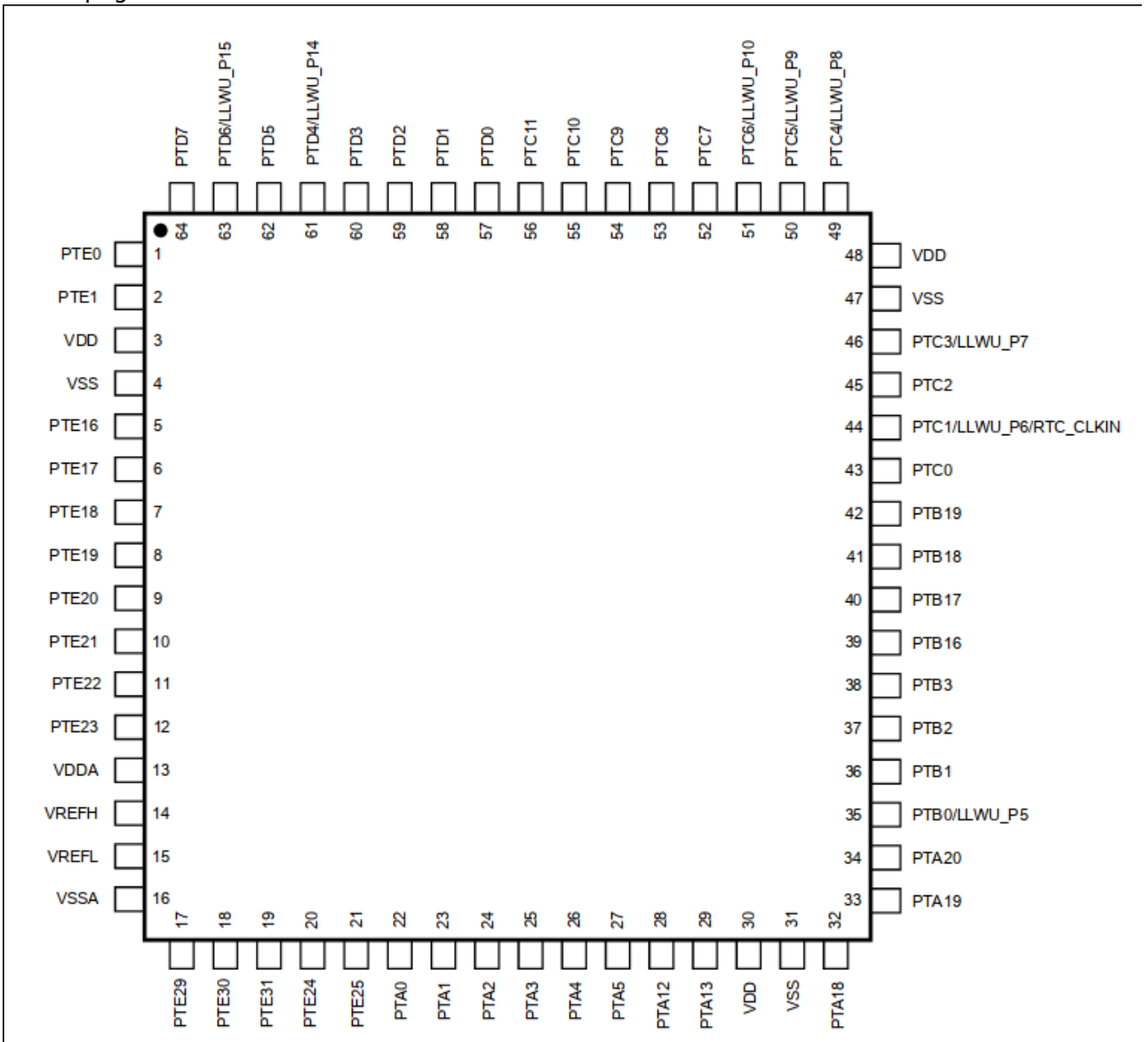


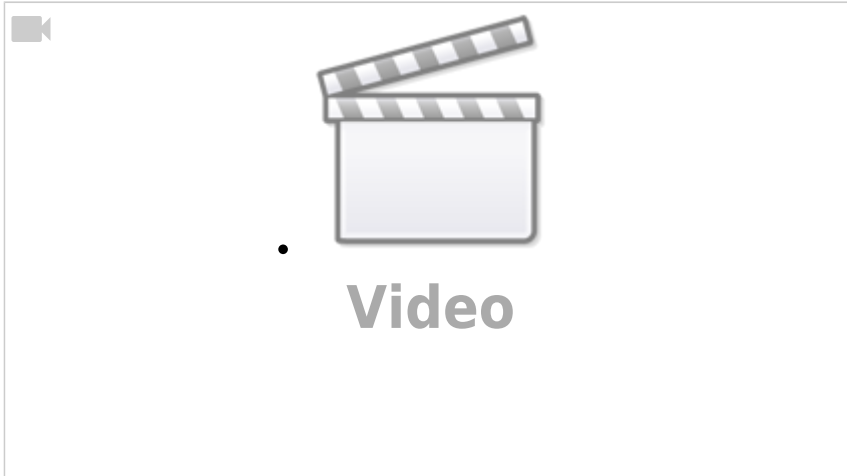
Figure 22. KL16 64-pin LQFP pinout diagram

- Pines opcionados

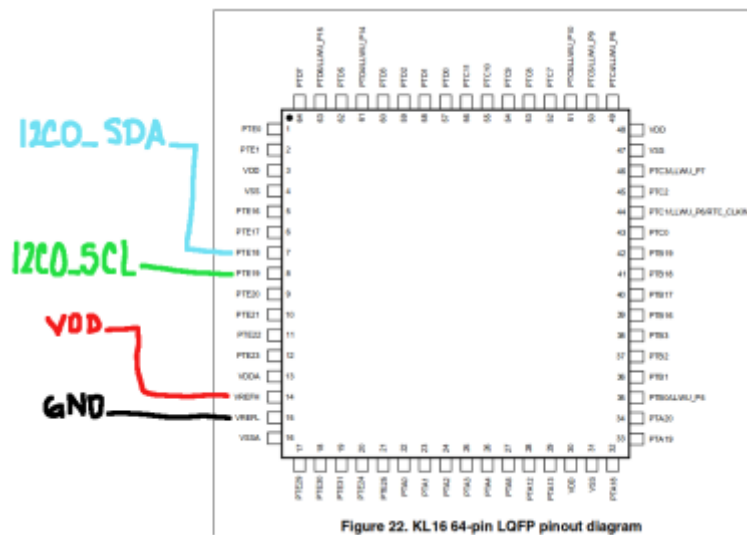
7	5	5	PTE18	ADC0_DP2/ ADC0_SE2	ADC0_DP2/ ADC0_SE2	PTE18	SPI0_MOSI		I2C0_SDA	SPI0_MISO		
8	6	6	PTE19	ADC0_DM2/ ADC0_SE6a	ADC0_DM2/ ADC0_SE6a	PTE19	SPI0_MISO		I2C0_SCL	SPI0_MOSI		

- <https://blog.benjojo.co.uk/post/userspace-usb-drivers>

- <https://www.nxp.com/docs/en/supporting-information/Inter-Integrated-Circuit-Training.pdf>

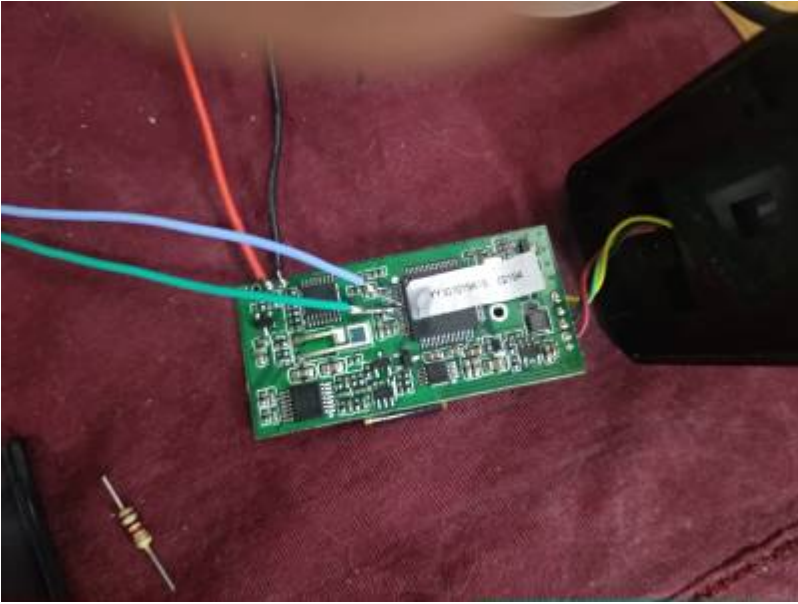


1er intento mapear pines del I2C



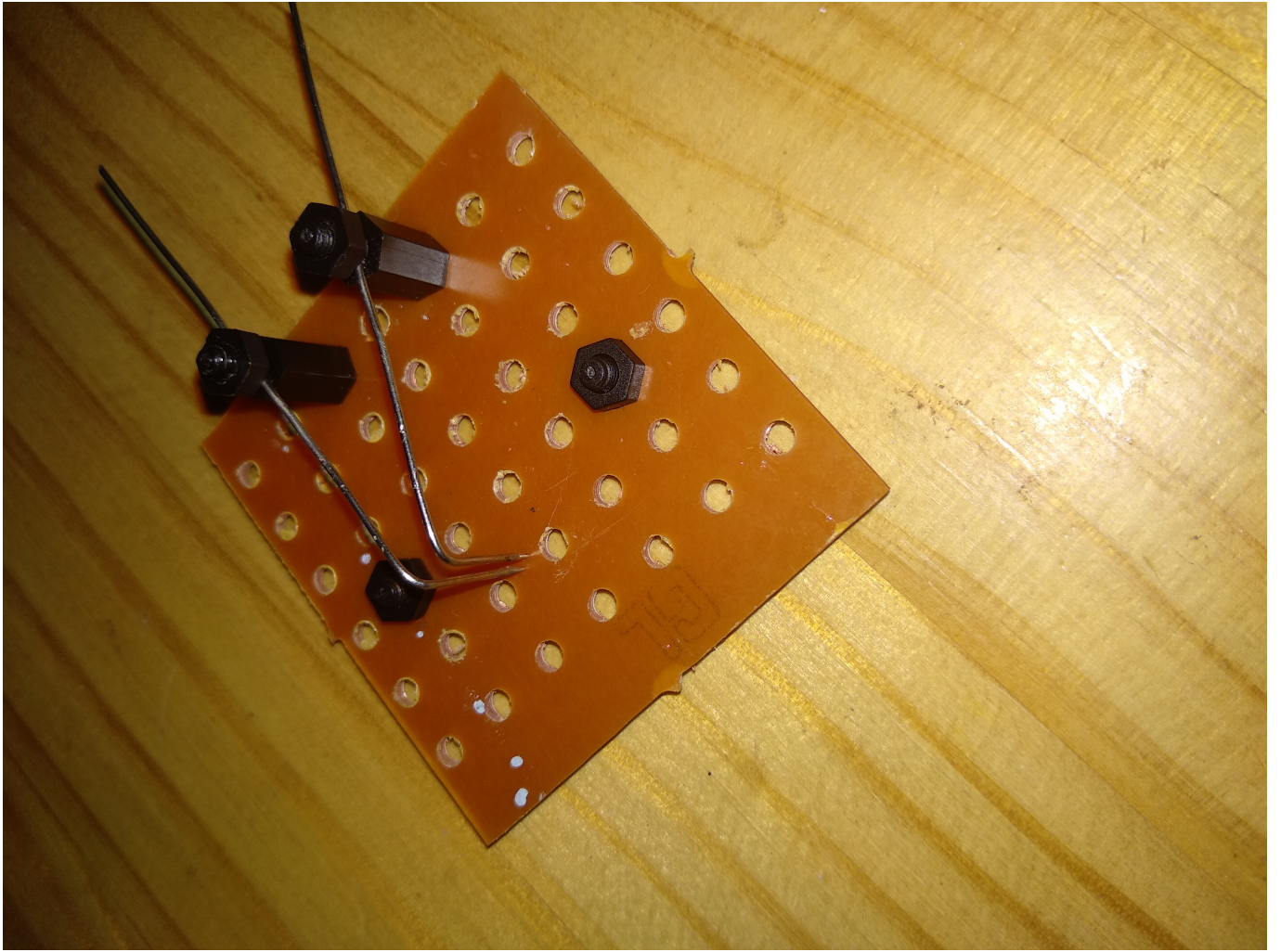


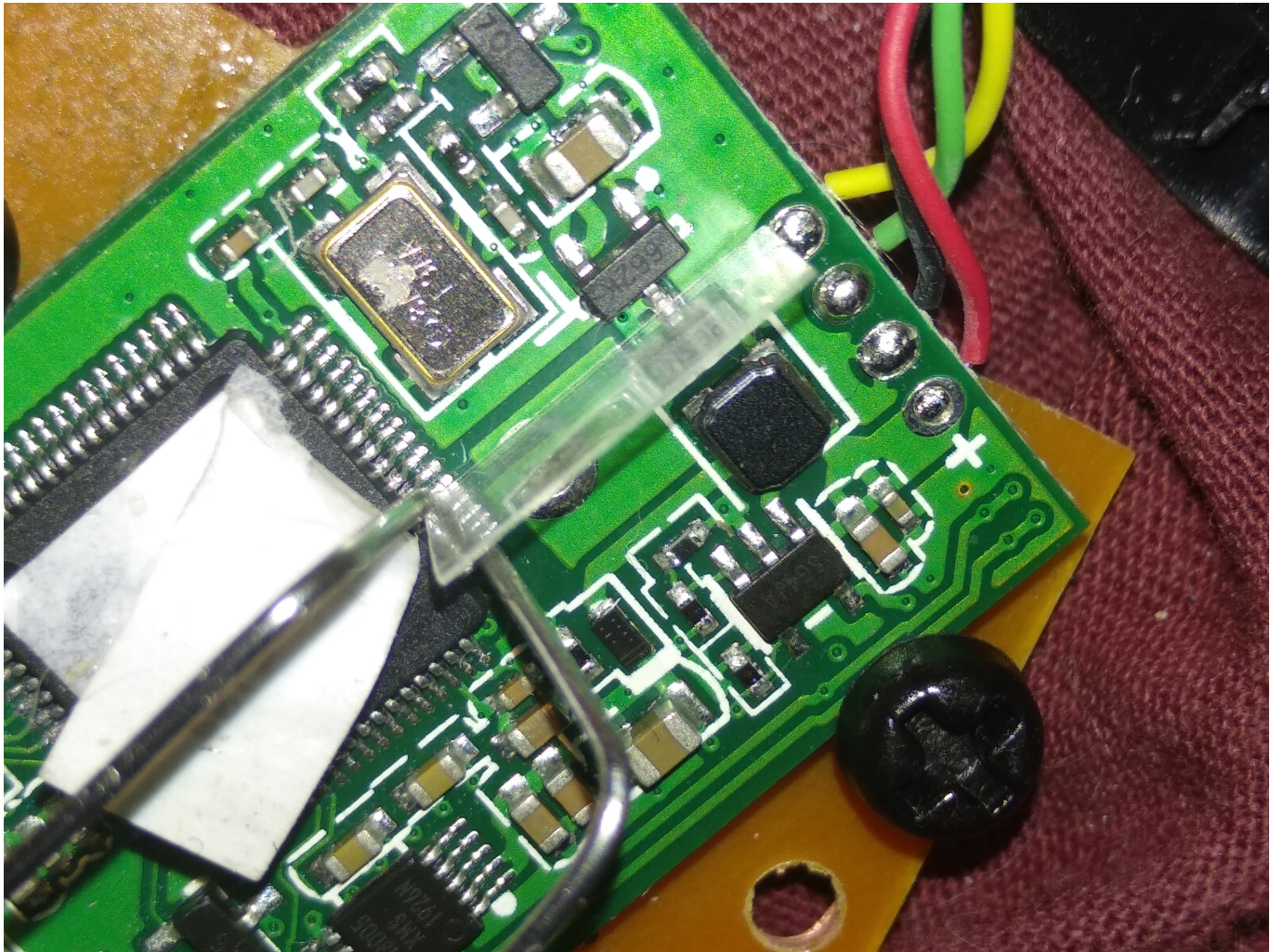
Los puntos de alimentación se pueden reemplazar como se ven en la imagen

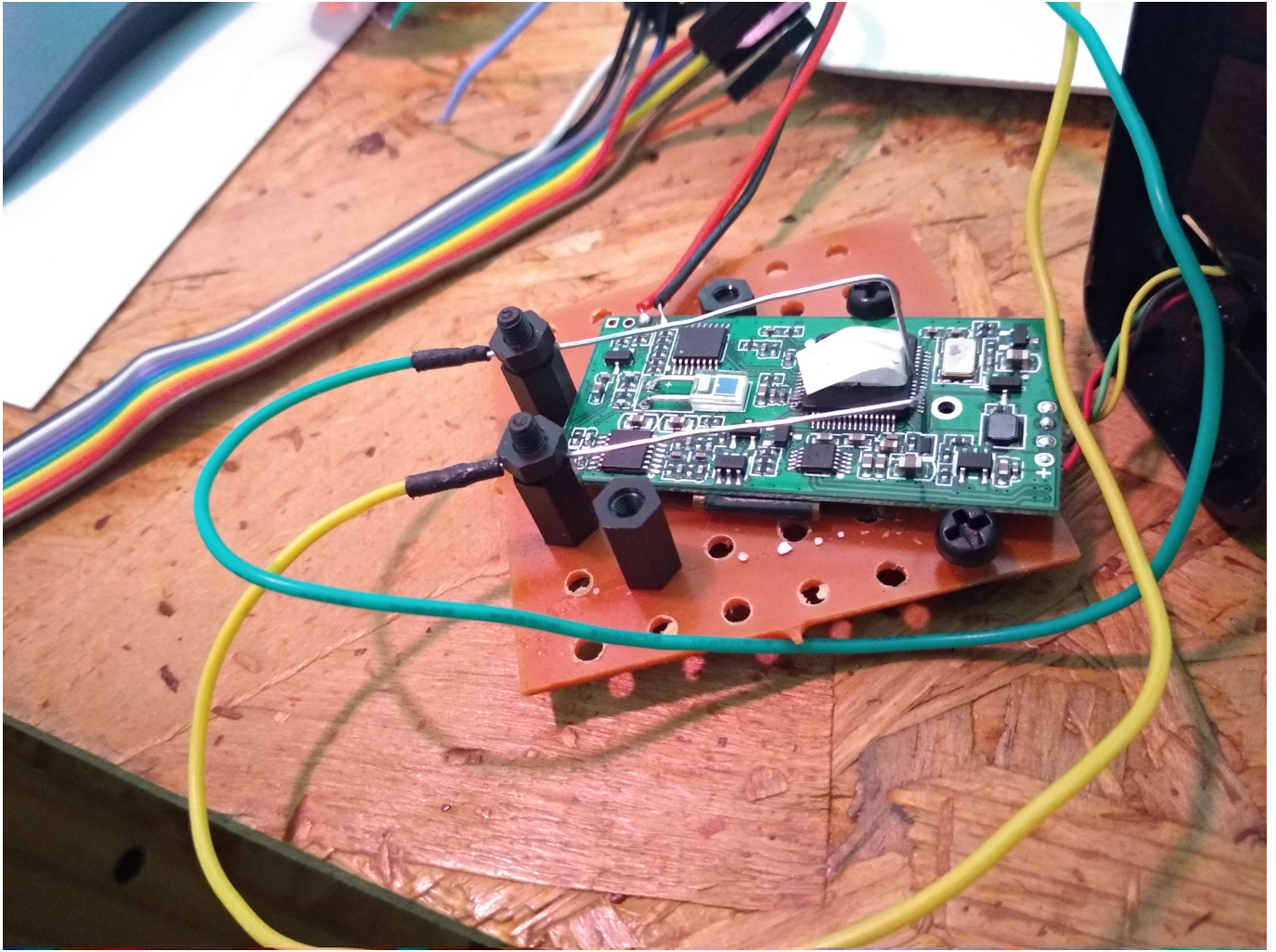


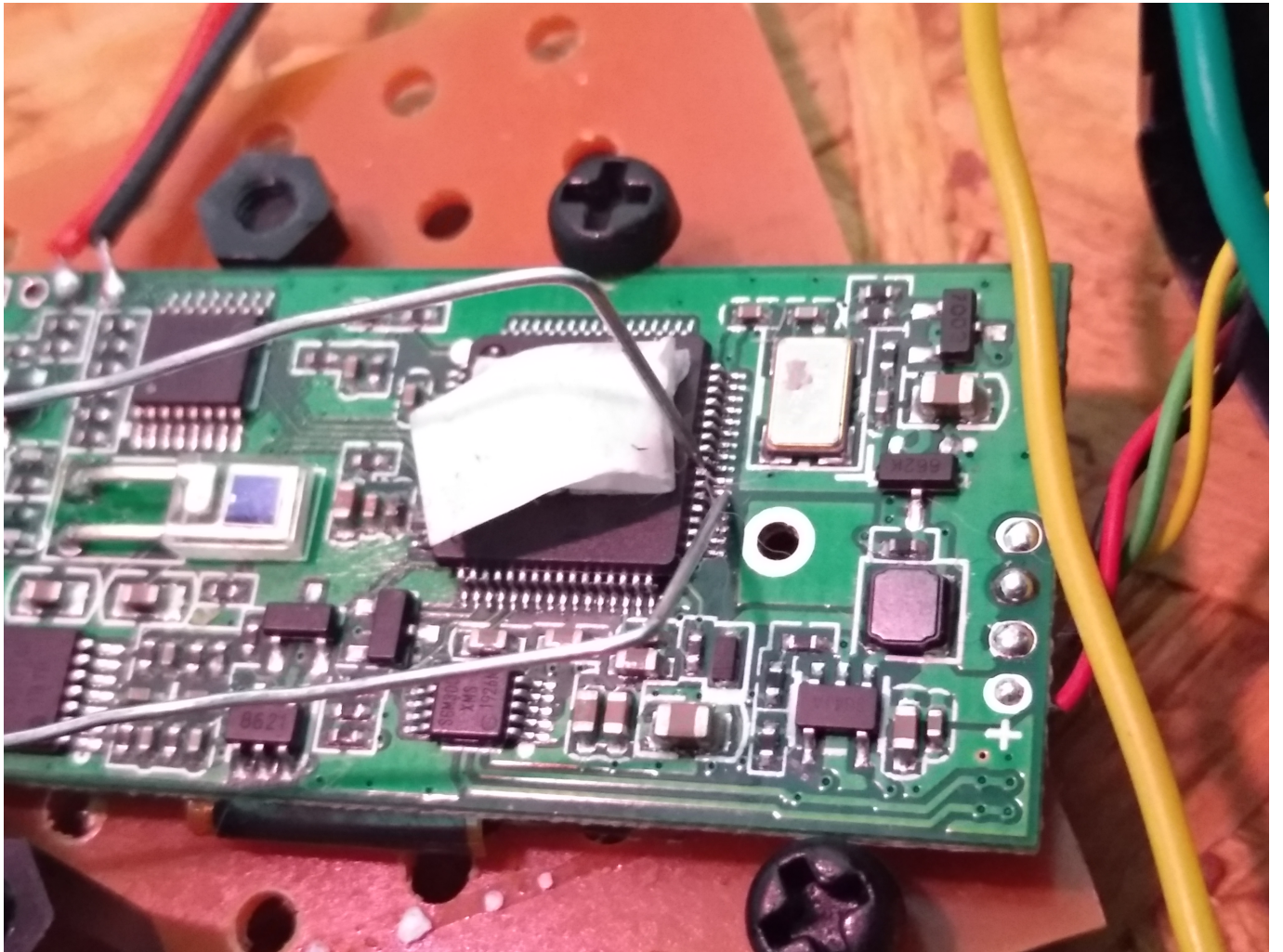
Este tuit <https://twitter.com/MrChuxMan/status/1288054419985248257> nos sirvió de referente para crear una herramienta que nos permita tomar las señales de pines muy pequeños, como los de microcontroladores.

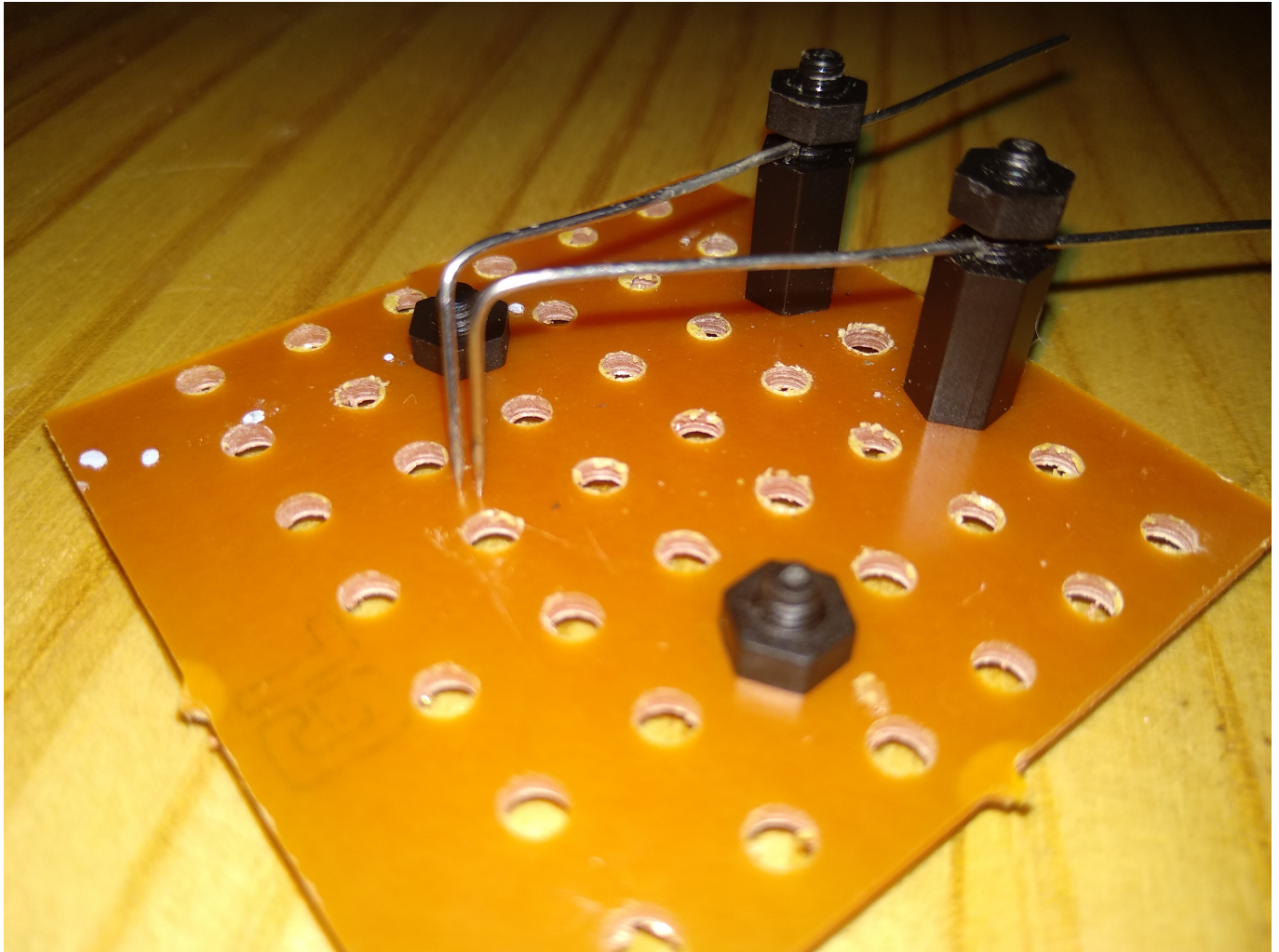












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