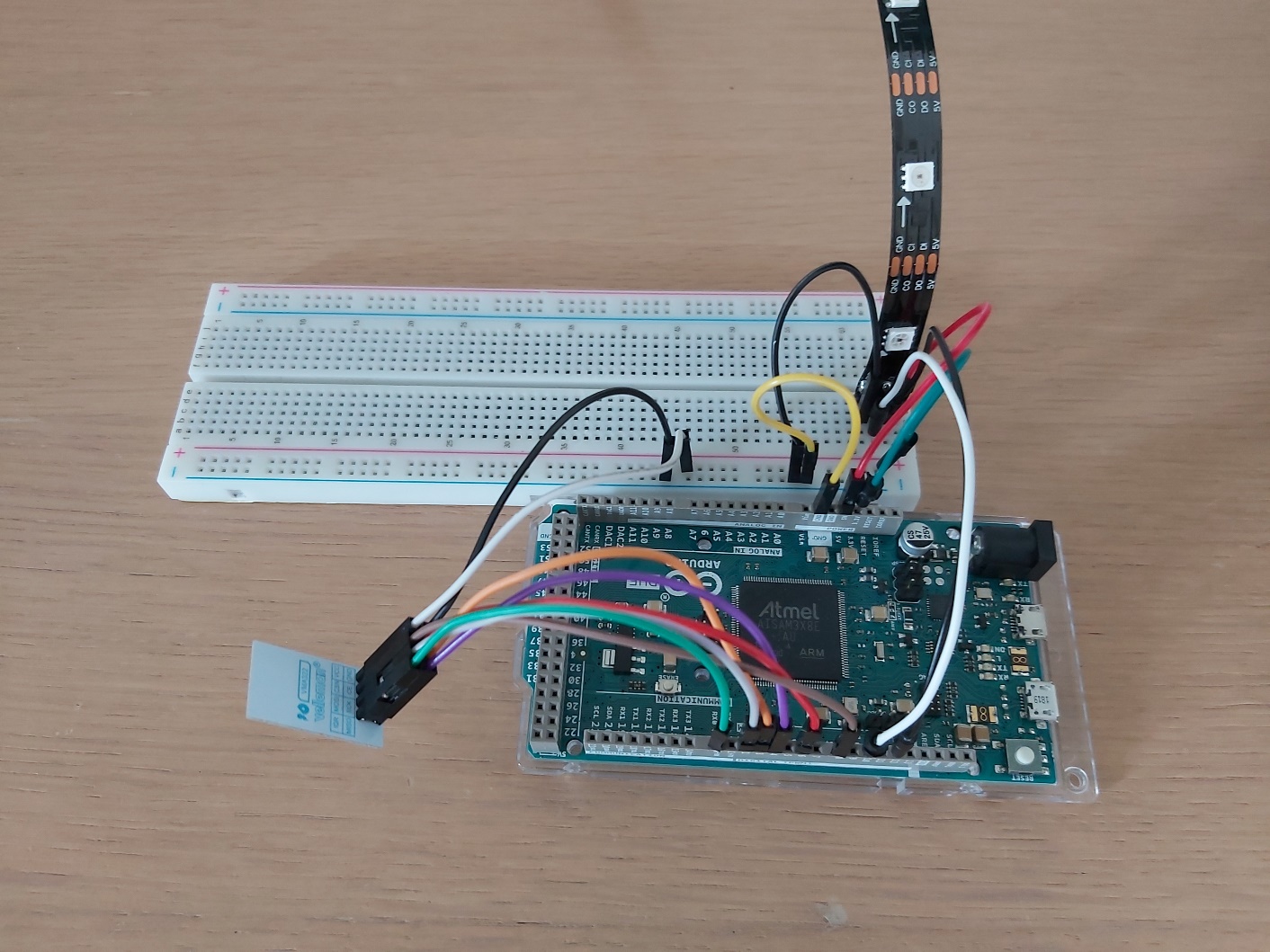
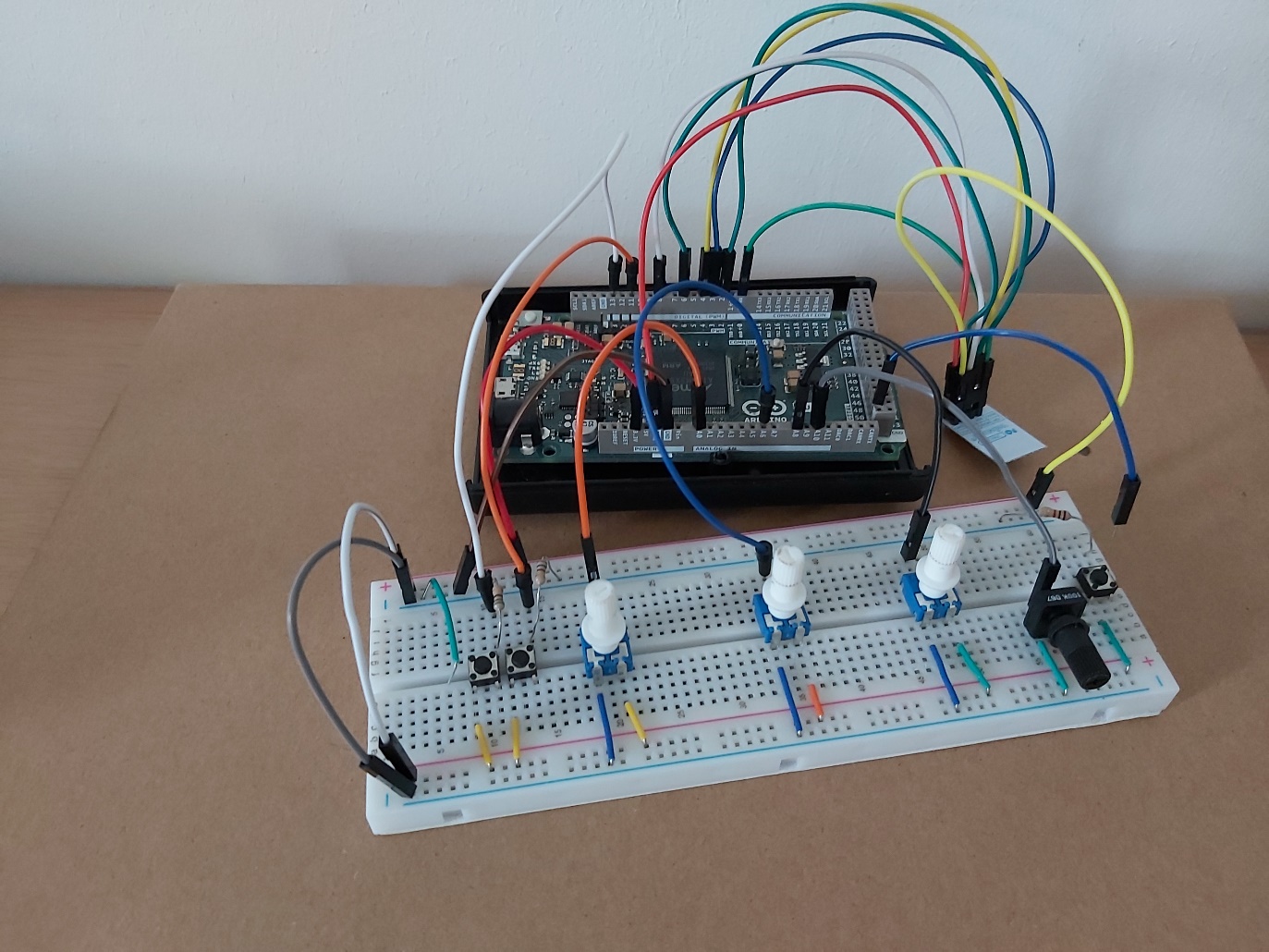
Afbeelding met tekst, elektronica, circuit

Automatisch gegenereerde beschrijving

***The RF24L01***

* Send and receive up to 32 on 6 pipes
* 128 rf-channels between 2400 and 2518 MHz.
* Auto-acknowlegde.
* Low-power usage
* 2 datarate modes (1 and 2 Mbps)
* 4 possible rf-outputpower (-18, -12, -6, 0 dBm)

Figuur 1: Circuit schematic Reciever

Figuur 2: Circuit schematic Transmitter

***Used hardware***

* 4 Potentiometers
* 3 pushbuttons
* 2 arduino dues
* 2 Rf24L01-module (vma322)
* 1 APA102
* Resistors

Figuur 3: RF24L01-chip

***The library***

* The library contains 1 class with 3 subclasses
* In the subclasses are stored the values of the registers, command and the functions of the RF24L01
* In the mainclass are all the functions to read and write data to the RF24L01 and change to specific functions on the RF24L01 by changing the values in the Registers

Figuur 4: VMA322 RF-transcievermodule

***Possible applications***

* Wireless PC periphals
* VoIP headsets
* Game controllers
* Sports watches and sensors
* Home and commercial automation
* Active RFID

RF24L01 rf-transceiver

Figuur 5: Transmitter

Figuur 6: Reciever

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