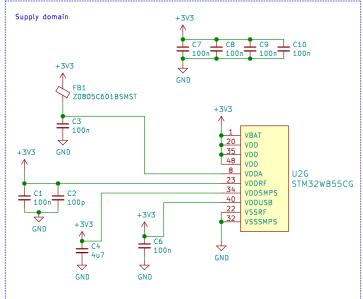


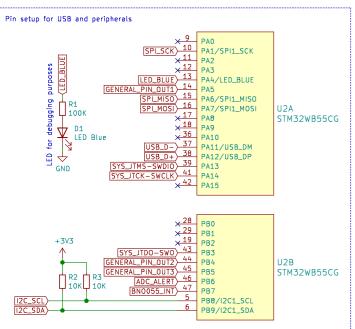
STM32WB microcontroller section

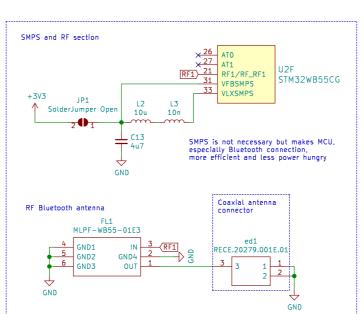


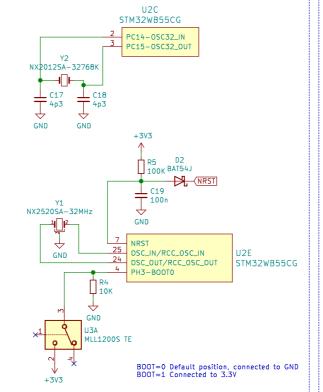
SpyPen
This pen uses ST32WB55 wireless Bluetooth LE microcontroller.
Powered by a 1.5 AAAA or AAA battery thanks to MCP1640 stepup to 3.3V I2C connections to peripherals:
1. TI ADS1115 for converting analog FSR04 force input to digital

2. Bosch BN0055 for 9—way motion detection — Accelerometer, Gyroscope, Magnetometer

This is a prototype. It has few unnecessary parts (ST-Link, SMPS, switch), although these parts make debugging easier.







Oscilator section 32MHz and 32768 kHz crystals Boot pin for loading booloader and NReset pin

