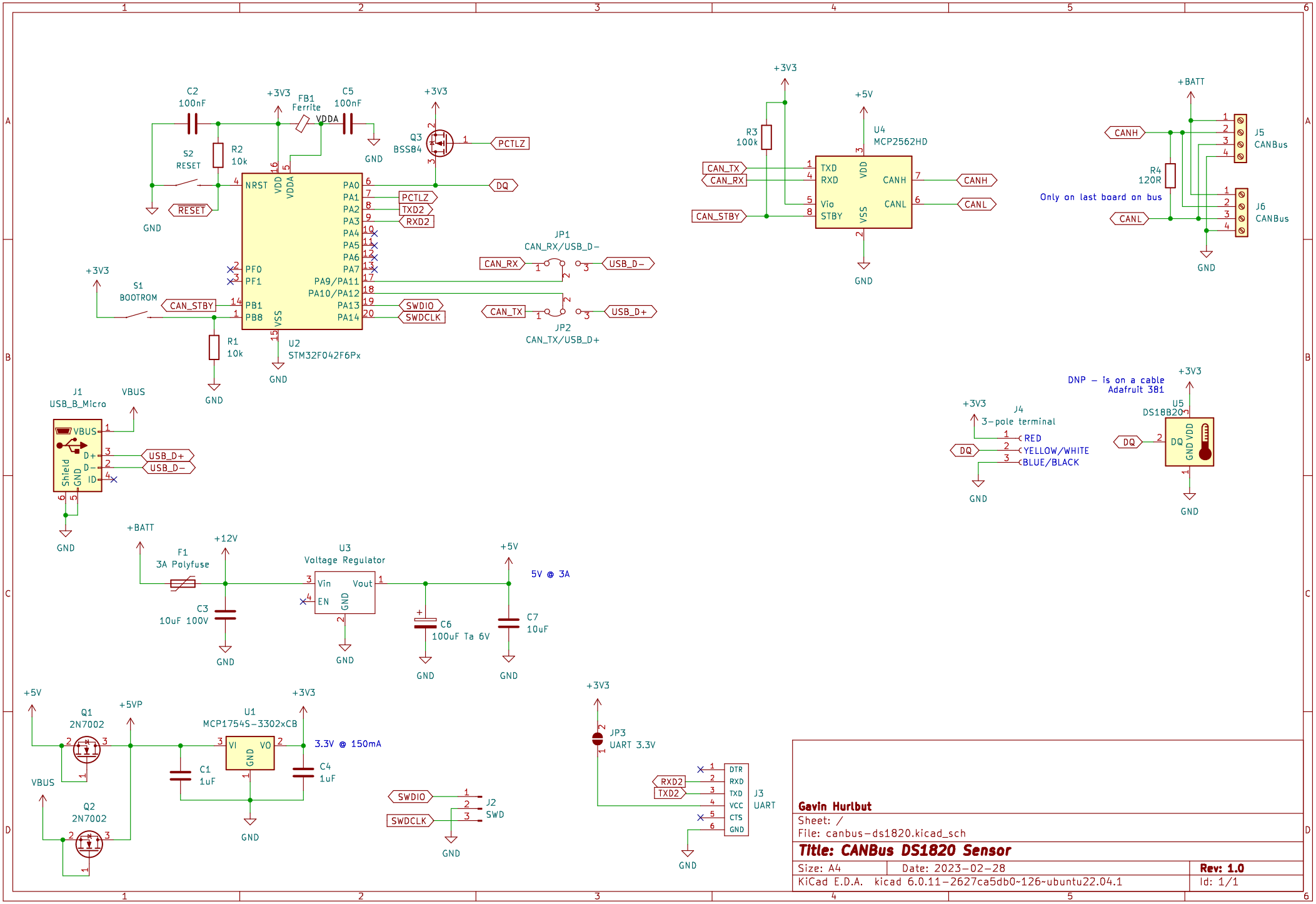
C2
100nF
+3V3
FB1
Ferrite
C5
100nF
VDDA
GND
S2
RESET
R2
10k
RESET
NRST
VDD
VDDA
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA9/PA11
PA10/PA12
PA13
PA14
PF0
PF1
PB1
PB8
VSS
PCTLZ
TXD2
RXD2
SWDIO
SWDCLK
Q3
BSS84
DQ
S1
BOOTROM
CAN_STBY
R1
10k
U2
STM32F042F6Px
JP1
CAN_RX/USB_D−
CAN_RX
USB_D−
CAN_TX
USB_D+
JP2
CAN_TX/USB_D+
R3
100k
U4
MCP2562HD
TXD
RXD
Vio
STBY
VDD
VSS
CANH
CANL
+5V
+BATT
J5
CANBus
J6
CANBus
R4
120R
Only on last board on bus
J1
USB_B_Micro
VBUS
D+
D−
ID
Shield
GND
J4
3−pole terminal
RED
YELLOW/WHITE
BLUE/BLACK
DNP − is on a cable
Adafruit 381
U5
DS18B20
DQ
GND
VDD
F1
3A Polyfuse
+12V
U3
Voltage Regulator
Vin
Vout
EN
5V @ 3A
C3
10uF 100V
C6
100uF Ta 6V
C7
10uF
Q1
2N7002
+5VP
Q2
2N7002
U1
MCP1754S−3302xCB
VI
VO
3.3V @ 150mA
C1
1uF
C4
1uF
J2
SWD
JP3
UART 3.3V
J3
UART
DTR
RXD
TXD
VCC
CTS
GND
Gavin Hurlbut
Sheet: /
File: canbus−ds1820.kicad_sch
Title: CANBus DS1820 Sensor
Size: A4
Date: 2023−02−28
Rev: 1.0
KiCad E.D.A. kicad 6.0.11−2627ca5db0~126~ubuntu22.04.1
Id: 1/1