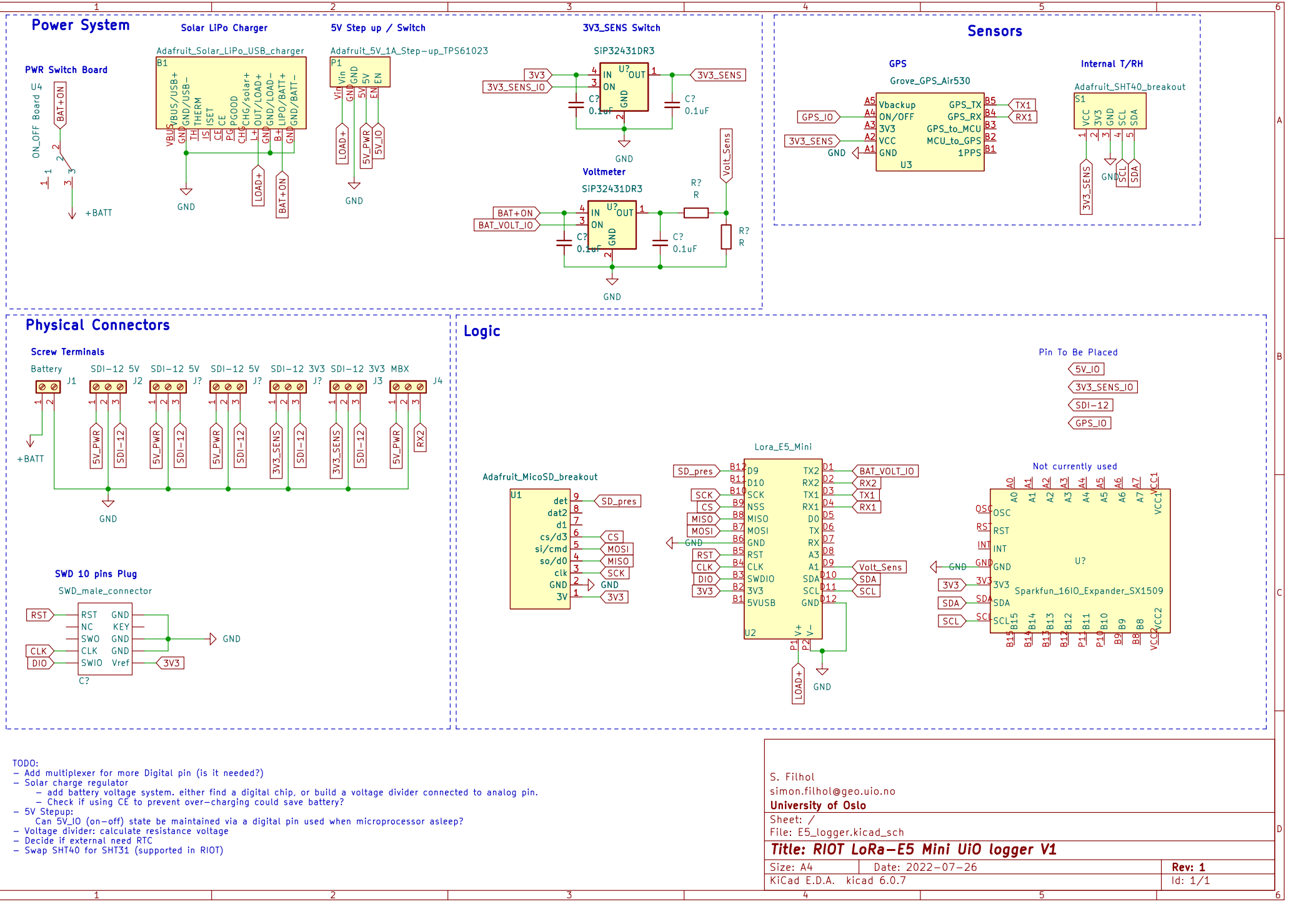
Power System
Solar LiPo Charger
5V Step up / Switch
3V3_SENS Switch
PWR Switch Board
Adafruit_Solar_LiPo_USB_charger
Adafruit_5V_1A_Step-up_TPS61023
SiP32431DR3
Voltmeter
Sensors
GPS
Grove_GPS_Air530
Internal T/RH
Adafruit_SHT40_breakout
Physical Connectors
Screw Terminals
Battery
SDI-12 5V
SDI-12 3V3
SDI-12 3V3 MBX
SWD 10 pins Plug
SWD_male_connector
Logic
Pin To Be Placed
Lora_E5_Mini
Adafruit_MicoSD_breakout
Not currently used
Sparkfun_16IO_Expander_SX1509
TODO:
- Add multiplexer for more Digital pin (is it needed?)
- Solar charge regulator
  - add battery voltage system. either find a digital chip, or build a voltage divider connected to analog pin.
  - Check if using CE to prevent over-charging could save battery?
- 5V Stepup:
  Can 5V_IO (on-off) state be maintained via a digital pin used when microprocessor asleep?
- Voltage divider: calculate resistance voltage
- Decide if external need RTC
- Swap SHT40 for SHT31 (supported in RIOT)
S. Filhol
simon.filhol@geo.uio.no
University of Oslo
Sheet: /
File: E5_logger.kicad_sch
Title: RIOT LoRa-E5 Mini UiO logger V1
Size: A4
Date: 2022-07-26
Rev: 1
KiCad E.D.A. kicad 6.0.7
Id: 1/1