

NovaGlider

This schematic is part of the CanSat Belgium competition for the NovaGlider team by the Saint-Barbara College in Ghent.
This schematic has the STM32F103C8T6 at its core. It is powered by a single-cell lipo battery that is converted by the TPS63020DSJR (3V3) and a MP28163GQ-P (5V0).

It's main features are:

- 1) 3x servo
- 2) BME280 to measure air pressure, humidity and temperature (i2c adress 0x76)
- 3) MPU9250 9-axis accelerometer, gyrometer and compass (i2c adress 0x68)
- 4) RFM69HCW 433 mHz radio module (SPI)
- 5) A micro-SD card
- 6) UART connector for a GPS module
- 7) 3 push buttons for general purpose input

Power



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MCU & peripherals



File: mcu_and_peripherals.kicad_sch

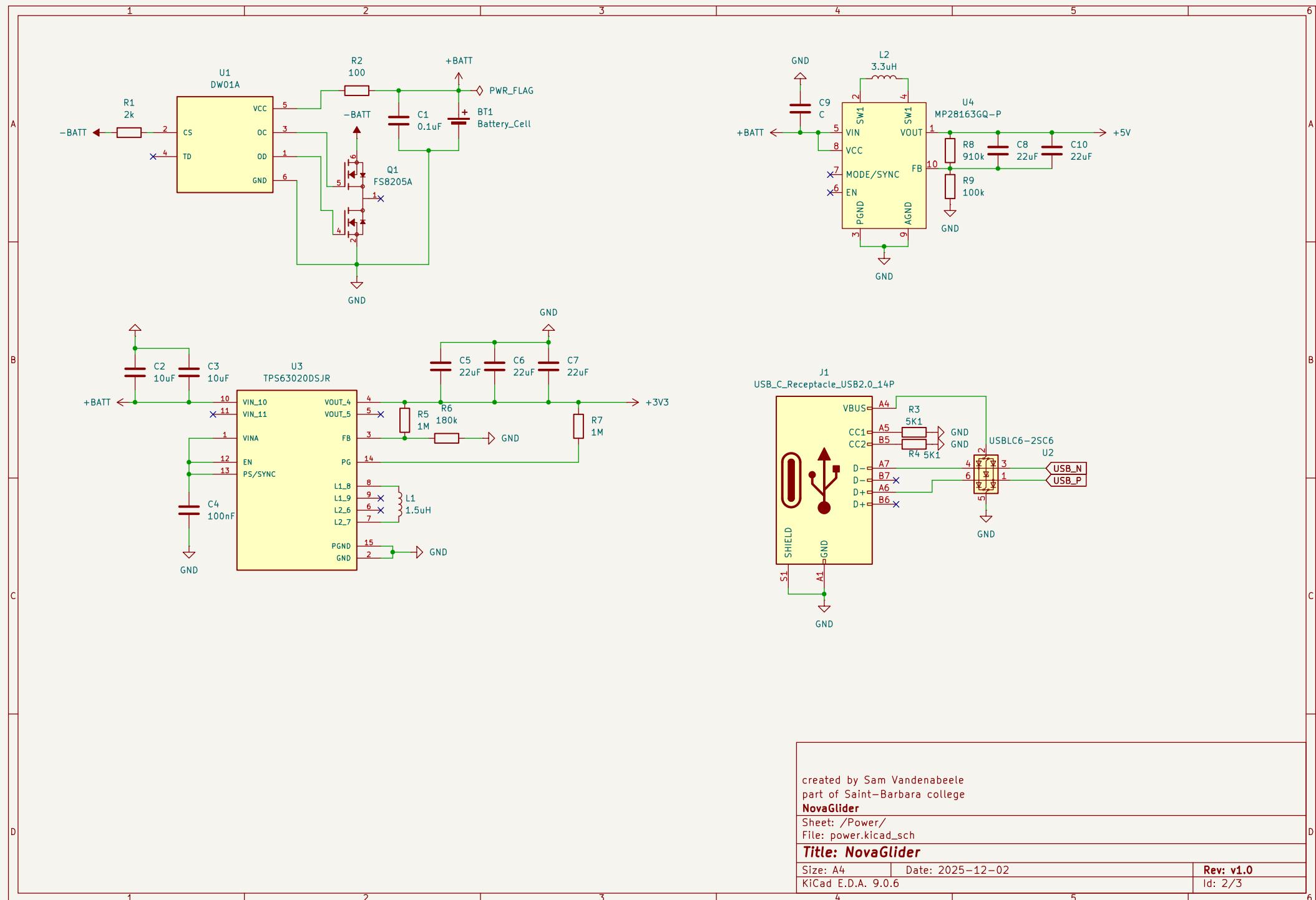
created by Sam Vandenabeele
part of Saint-Barbara college
NovaGlider

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Title: NovaGlider

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