

Jiří "b1u3-22" Sedlák

Sheet: /

File: Springy.kicad\_sch

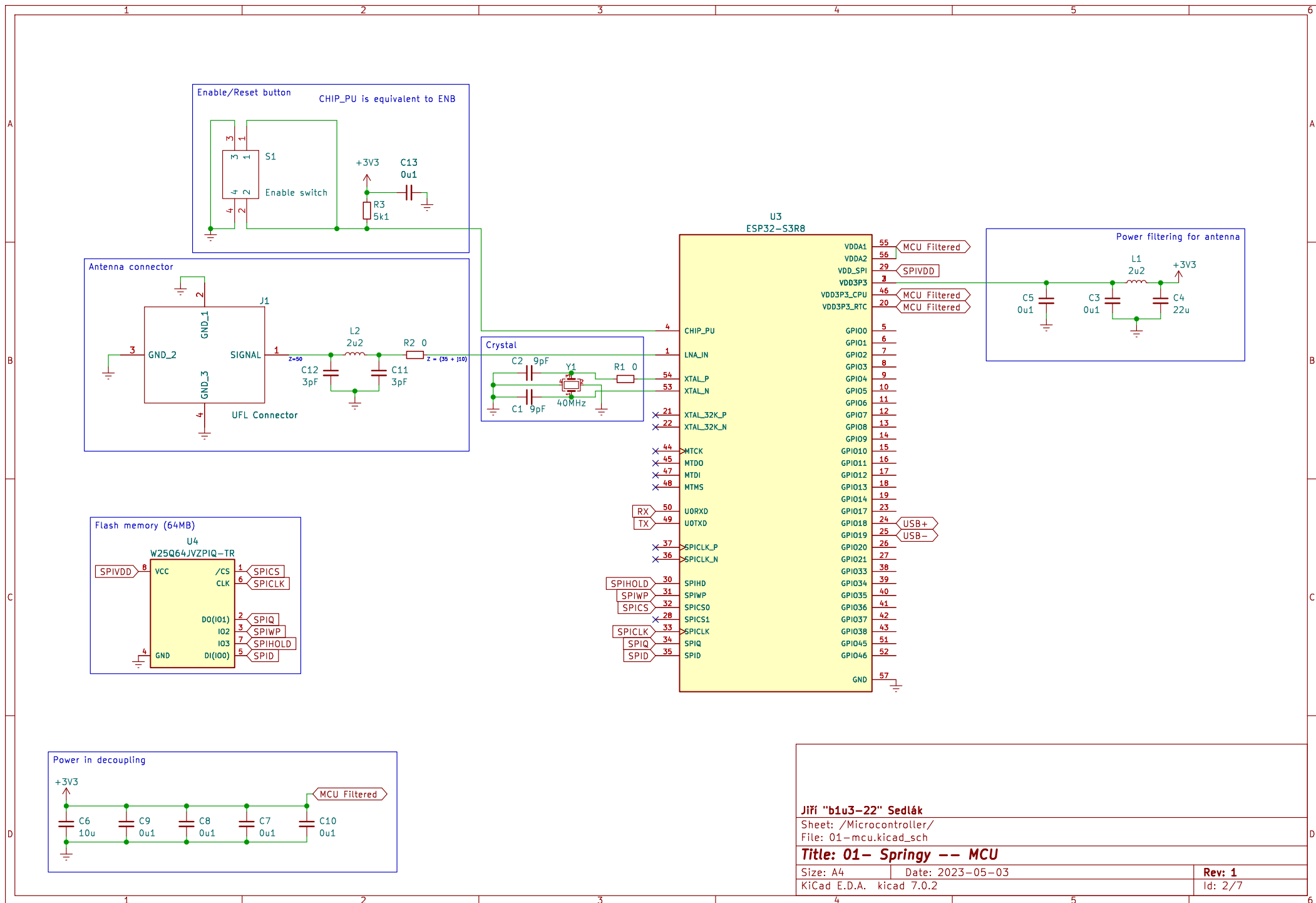
**Title: 00 - Springy -- Block diagram**

Size: A4 Date: 2023-05-03

KiCad E.D.A. kicad 7.0.2

Rev: 1

Id: 1/7



Jiří "b1u3-22" Sedlák

Sheet: /Microcontroller/  
File: 01-mcu.kicad\_sch

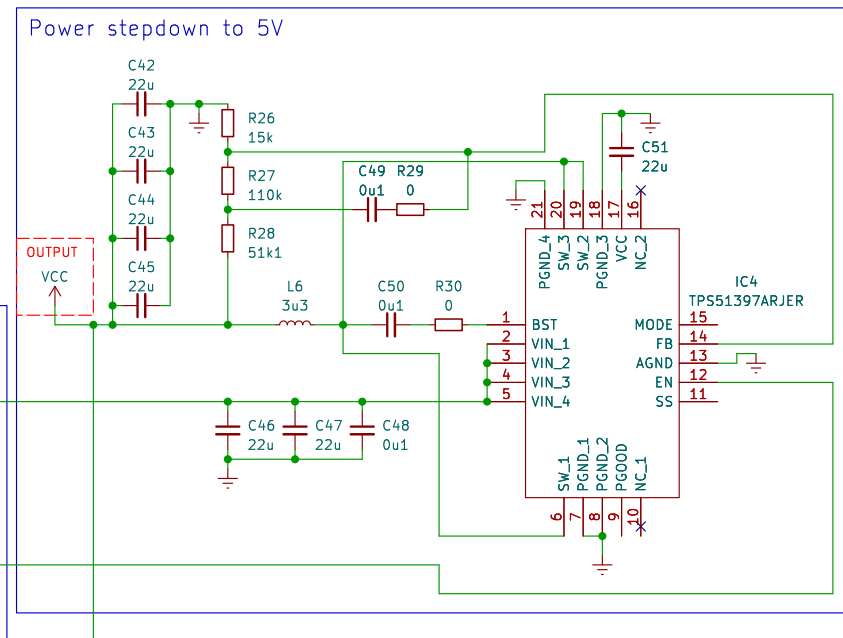
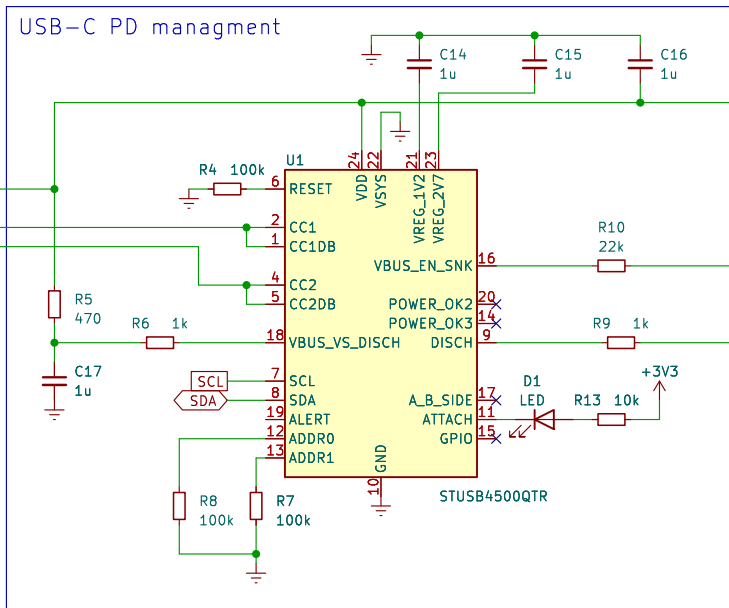
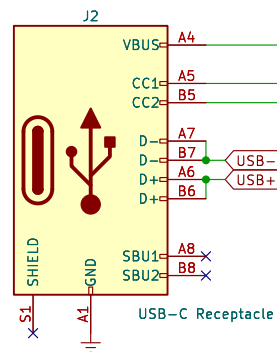
**Title: 01- Springy -- MCU**

Size: A4 Date: 2023-05-03

KiCad E.D.A. kicad 7.0.2

Rev: 1

Id: 2/7



VBUS\_EN\_SNK is normally connected to gate of NFET.  
In this instance, we can use this pins output to enable the 5V buck converter.

Jiří "b1u3-22" Sedlák

Sheet: /USB/

File: 02-usb.kicad\_sch

**Title: 02 - Springy -- USB**

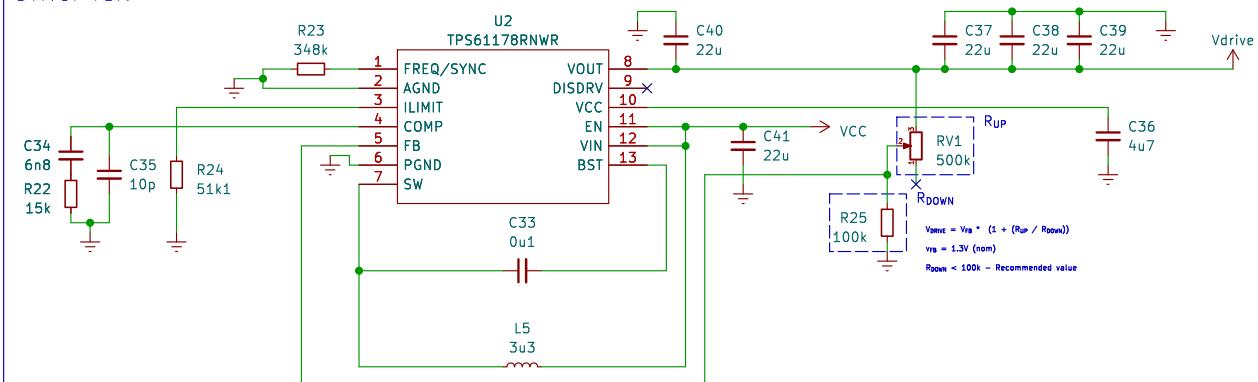
Size: A4 Date: 2023-05-03

KiCad E.D.A. kicad 7.0.2

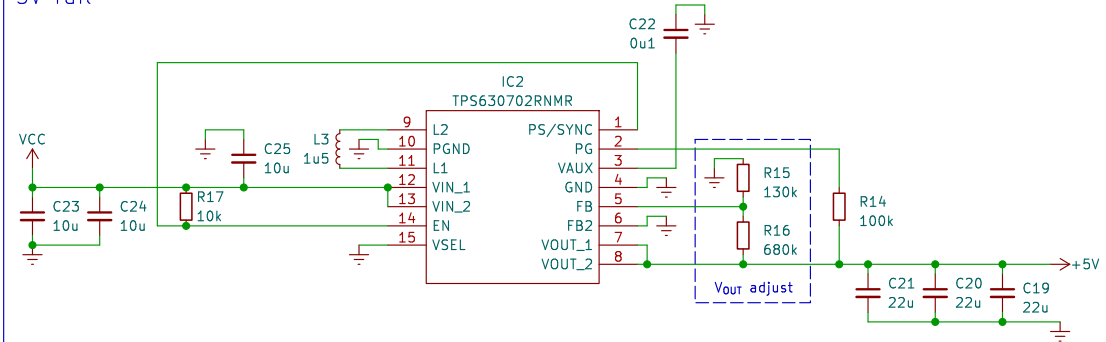
**Rev: 1**

Id: 3/7

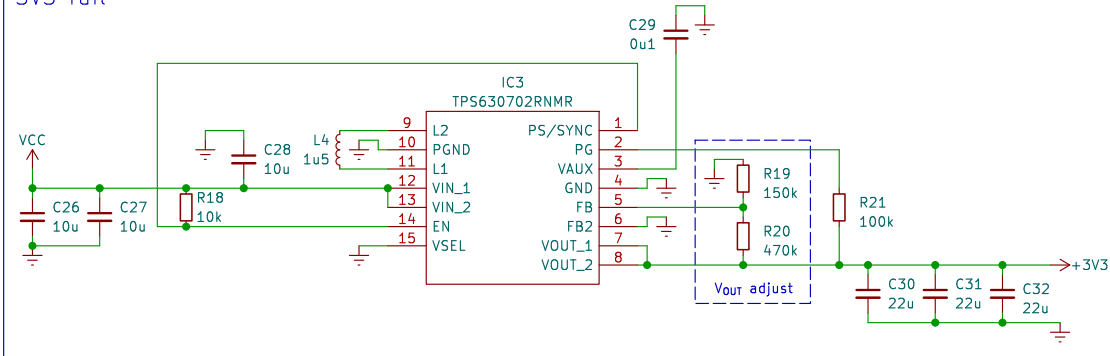
### Driver rail



### 5V rail



### 3V3 rail



Jiří "b1u3-22" Sedlák

Sheet: /Power management/

File: 03-power.kicad\_sch

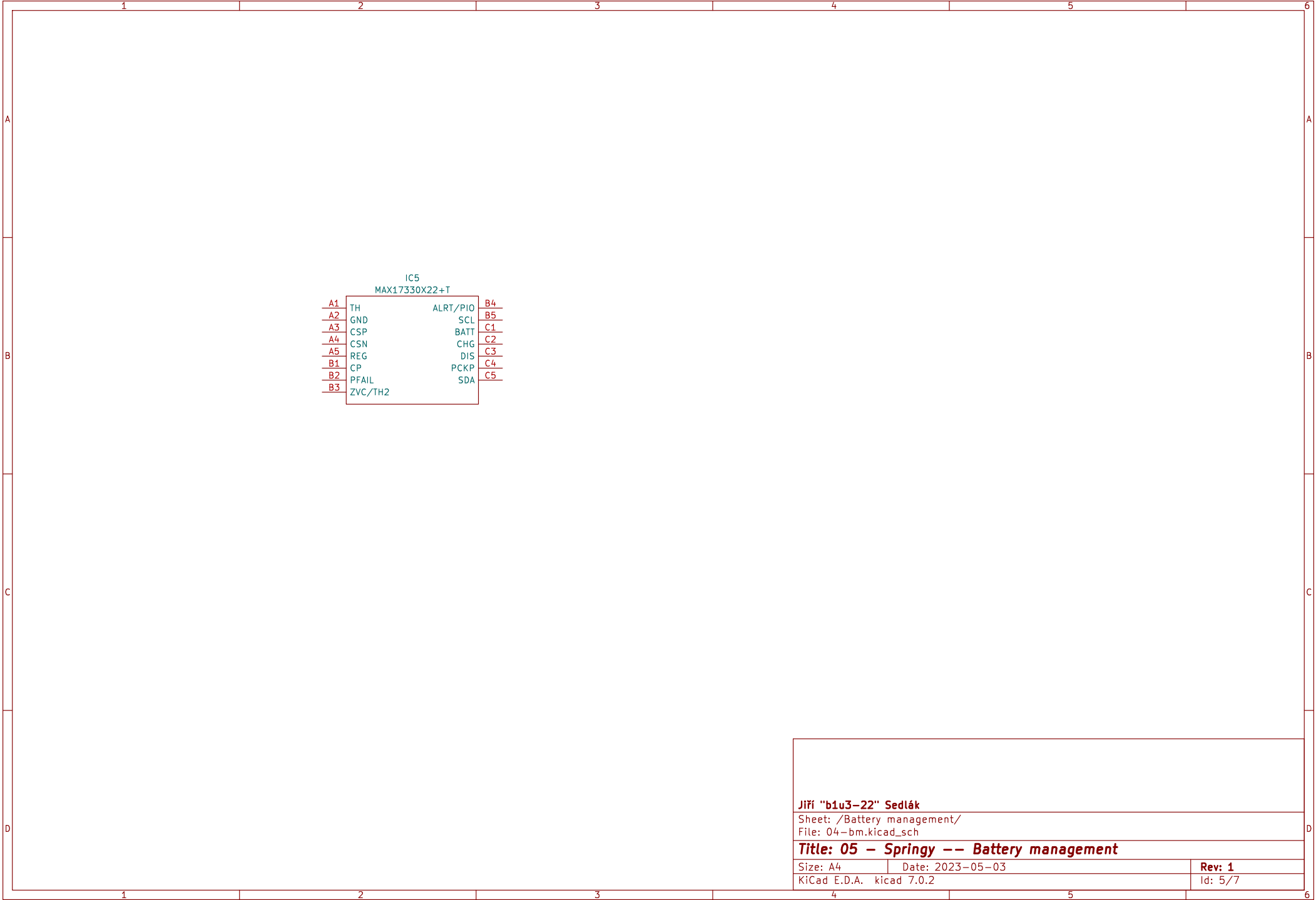
**Title: 03 – Spring – Power management**

Size: A4 Date: 2023-05-03

KiCad E.D.A. kicad 7.0.2

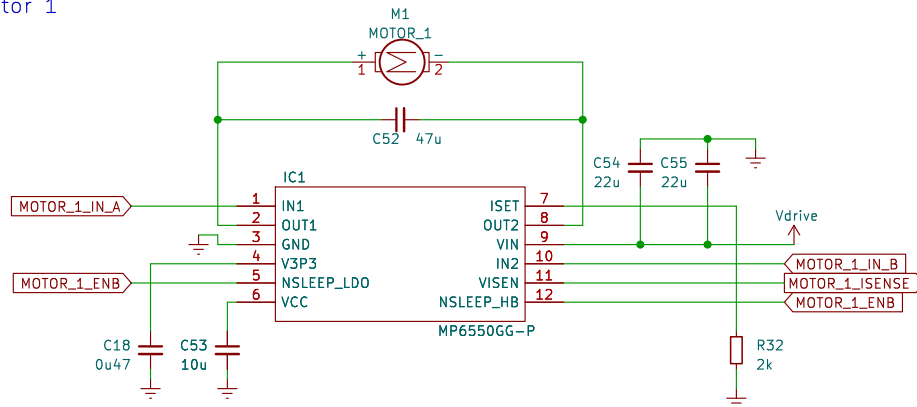
Rev: 1

Id: 4/7

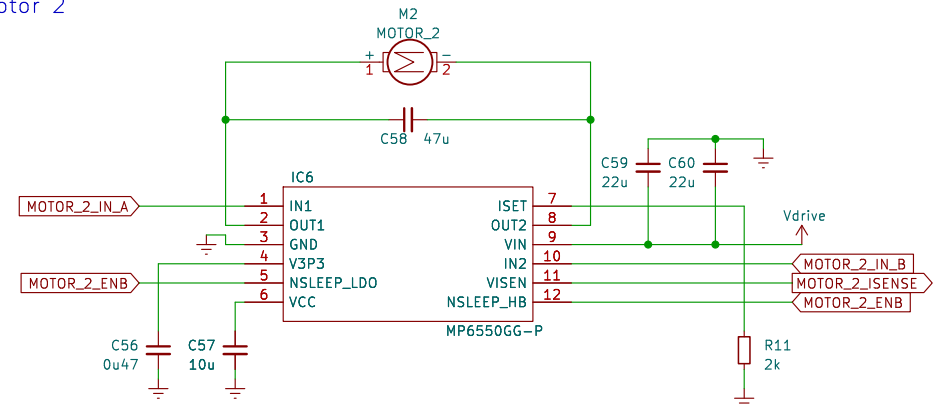


Jiří "b1u3-22" Sedlák		
Sheet: /Battery management/		
File: 04-bm.kicad_sch		
Title: 05 – Springy -- Battery management		
Size: A4	Date: 2023-05-03	Rev: 1
KiCad E.D.A. kicad 7.0.2		Id: 5/7

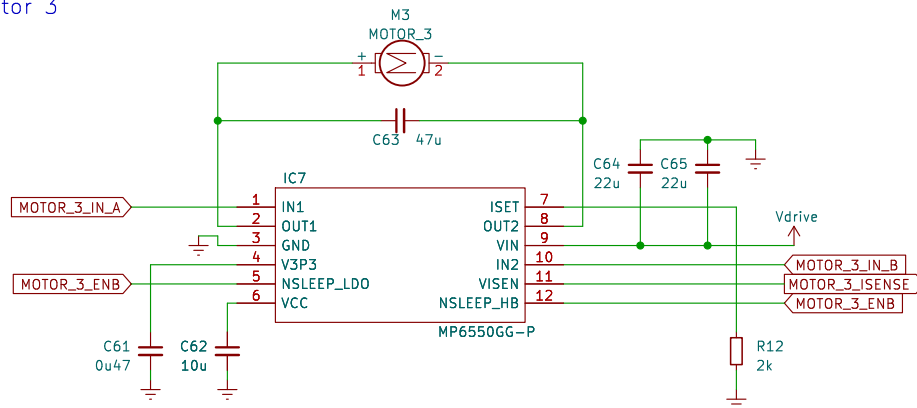
Motor 1



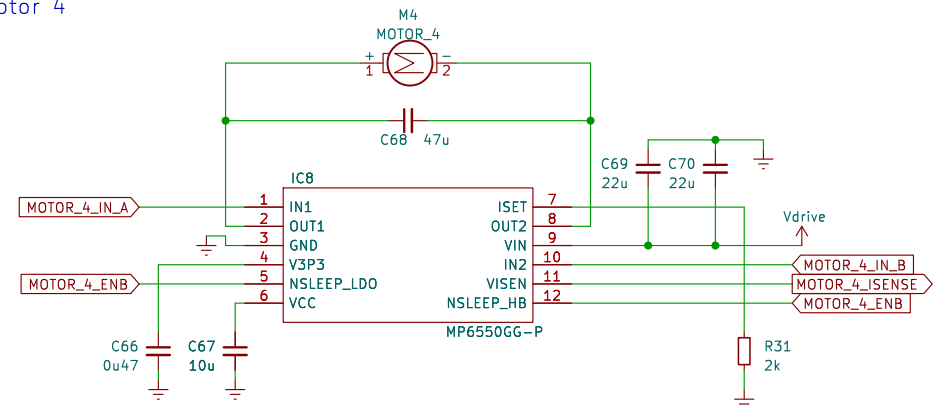
Motor 2



Motor 3



Motor 4



Jiří "b1u3-22" Sedlák

Sheet: /Motor drivers/

File: 05-drivers.kicad\_sch

**Title: 06 – Springy -- Motor Drivers**

Size: A4 Date: 2023-05-03

KiCad E.D.A. kicad 7.0.2

**Rev: 1**

Id: 6/7

123456						
A						A
B						B
C						C
D						D
123456						

Jiří "b1u3-22" Sedlák		
Sheet: /Peripherals/		
File: 06-peripherals.kicad_sch		
Title: 06 – Springy -- Peripherals		
Size: A4	Date: 2023-05-03	Rev: 1
KiCad E.D.A. kicad 7.0.2		Id: 7/7