

Power

File: power.kicad_sch

MCU

File: mcu.kicad_sch

Sensors

File: sensors.kicad_sch

H1

PCB_BLANK

GL2

Black_Logo

GL1

Clarkson_Gold

GL3

Clarkson_White

GL4

CUR_Gold

H2

MountingHole

H3

MountingHole

H4

MountingHole

H5

MountingHole

Clarkson University Rocketry

Sheet: /

File: airbrake_mod.kicad_sch

Title: Airbrakes PCB – Veðrfölnir

Size: B

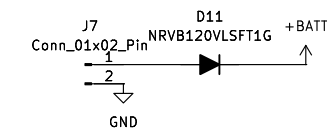
Date: 2025-02-18

Rev: v2025.01A

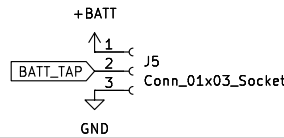
KiCad E.D.A. 8.0.5

Id: 1/4

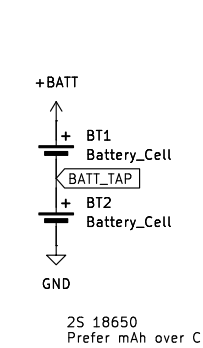
Aux Power



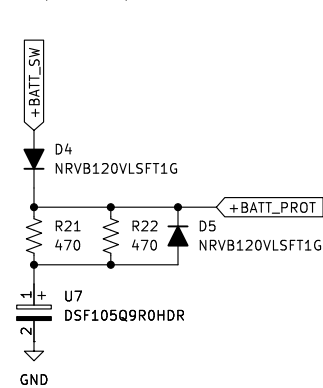
Charge Plug



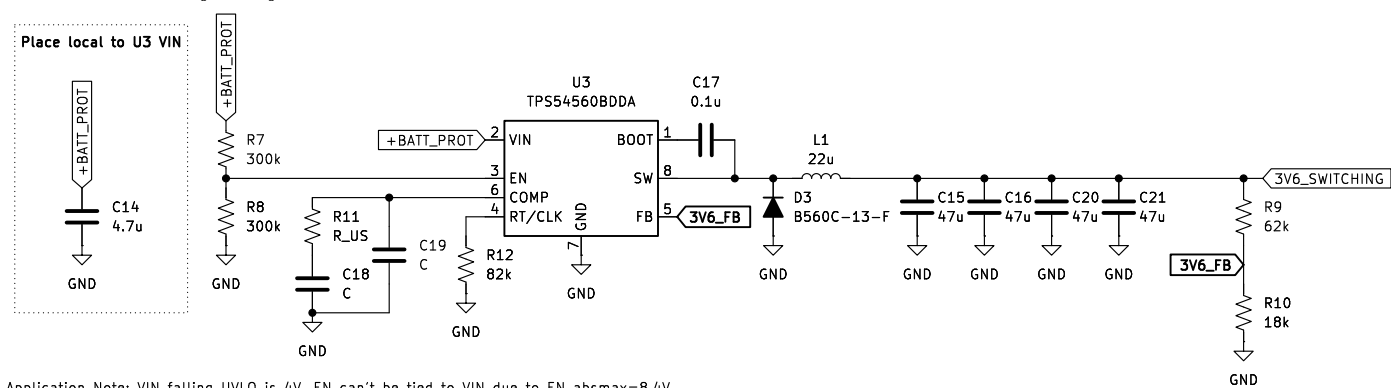
Batteries



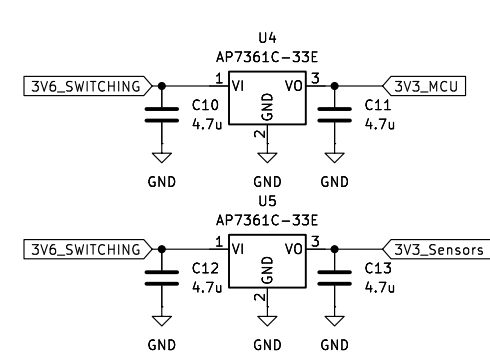
Supercap 3V6 UPS



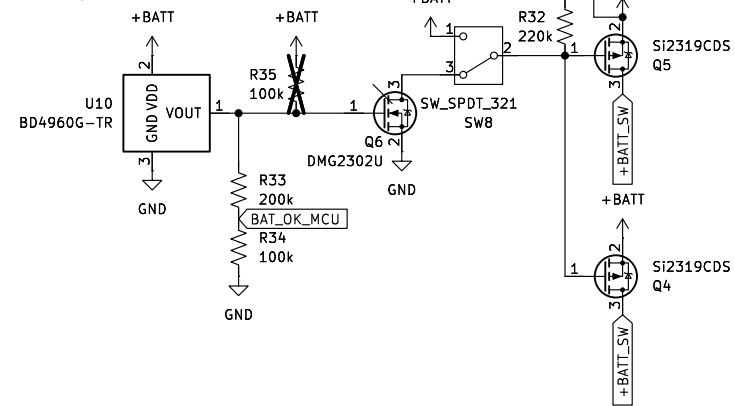
3V6 Switching Regulator



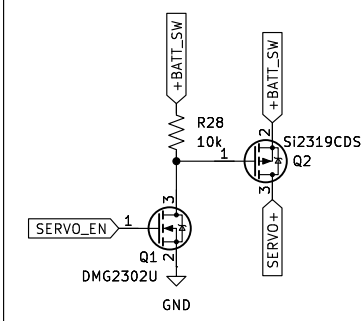
3V3 Precision Rails



LVCO/Power Switch

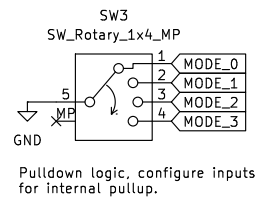


Servo Power Enable

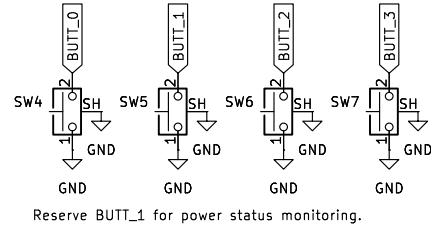


<https://www.st.com/en/microcontrollers-microprocessors/stm32h743vi.html>
Buttons shall be sideways for acceleration reasons.

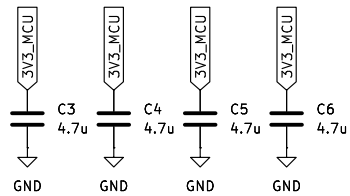
Mode Switch



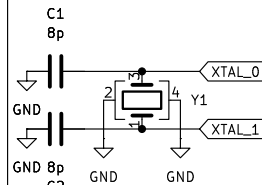
Buttons



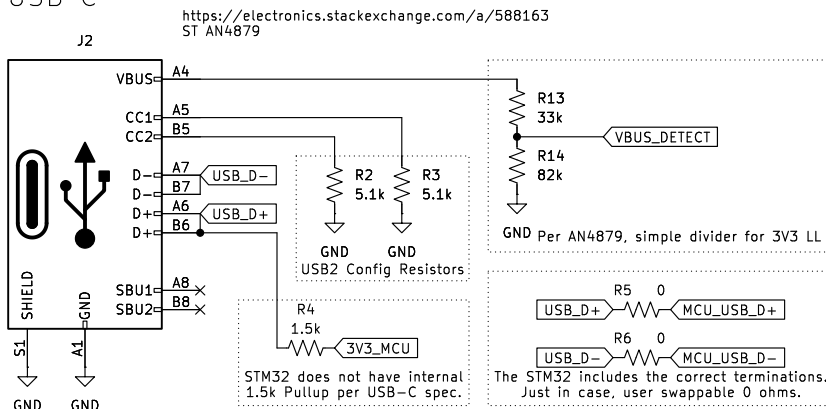
Bus Caps (MCU)



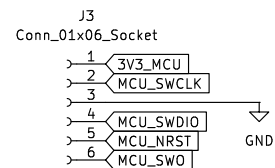
Crystal (MCU)



USB C

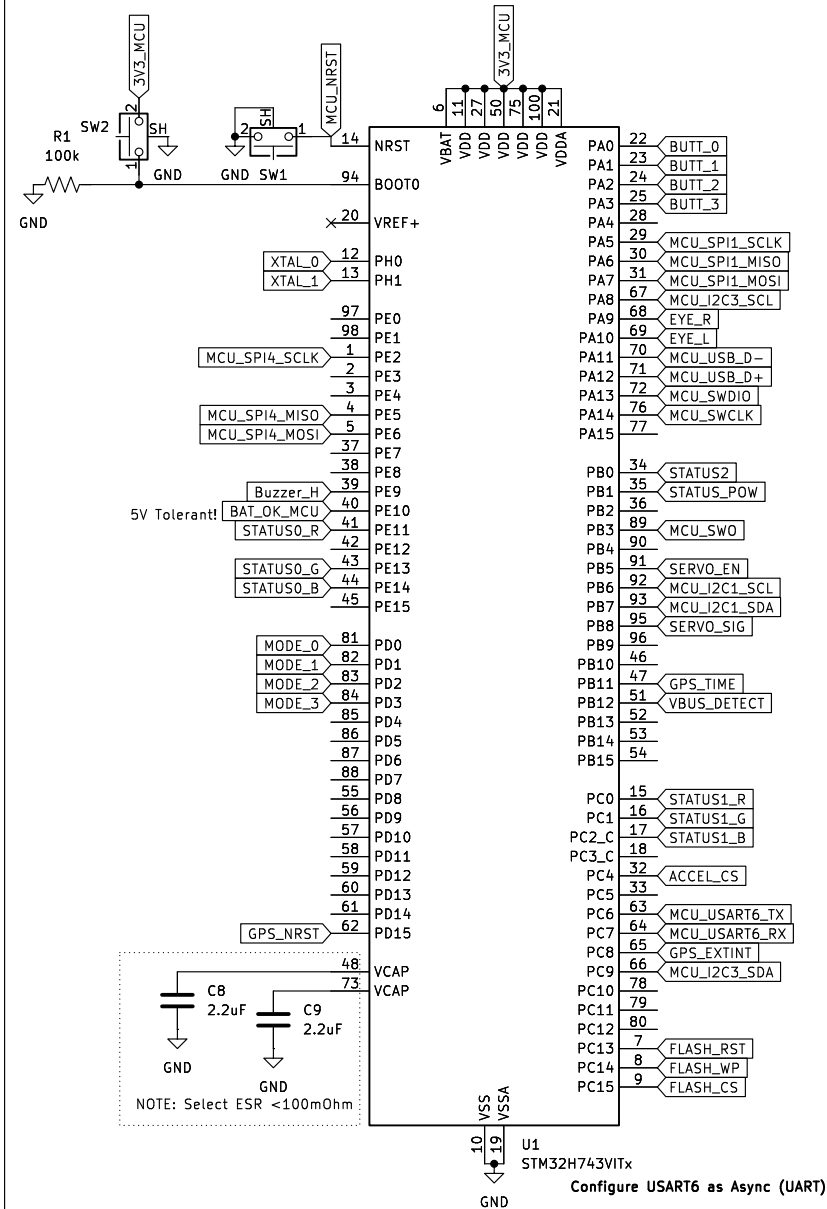


Debug Header

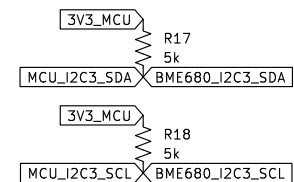
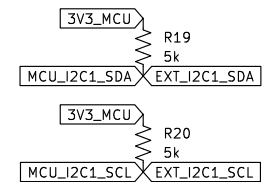
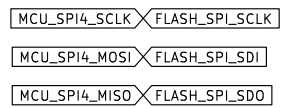
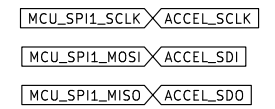


<https://www.digikey.com/en/products/detail/samtec-inc/FFSD-03-S-08-00-01/7230881>
^ Use specifically with 2x3 1.27mm header, be wary of cable width/height

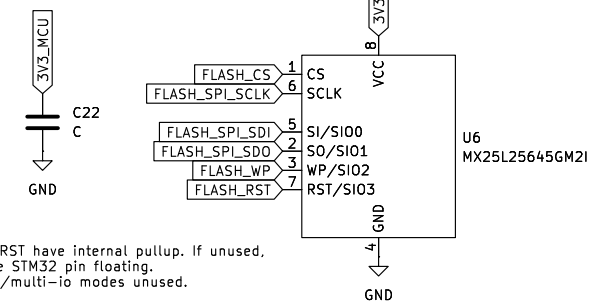
MCU-STM32H743VIT6



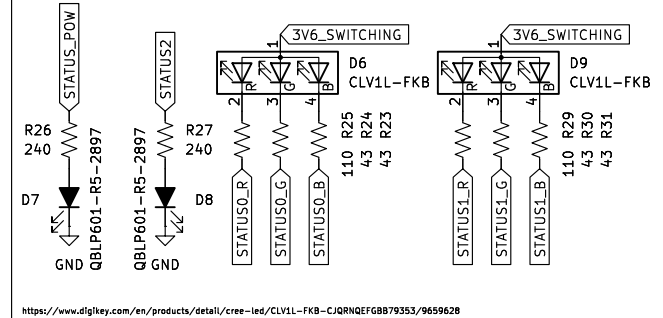
Bus Connections



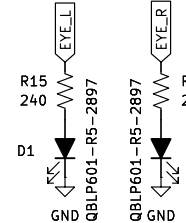
Flash



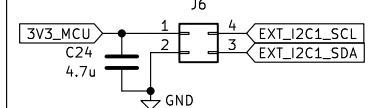
Status LEDs



Merritt's Eyes



External I2C



Buzzer

