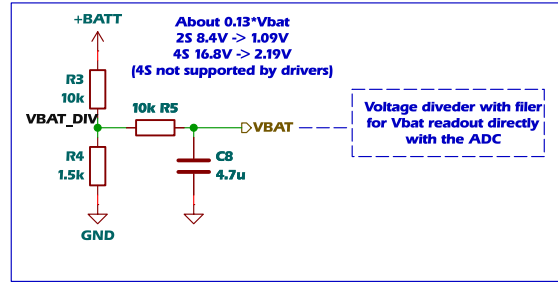


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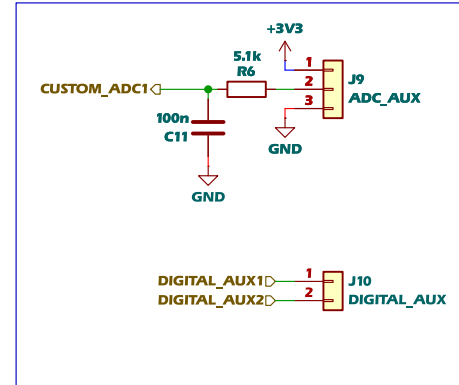
Made by: Filippo Castellan

Sheet: /		
File: ant control board v2.kicad_sch		
Title: Ant Robot control board		
Size: A4	Date: 2025-09-18	Rev: 2.0
KiCad E.D.A. 9.0.3	Id: 1/6	

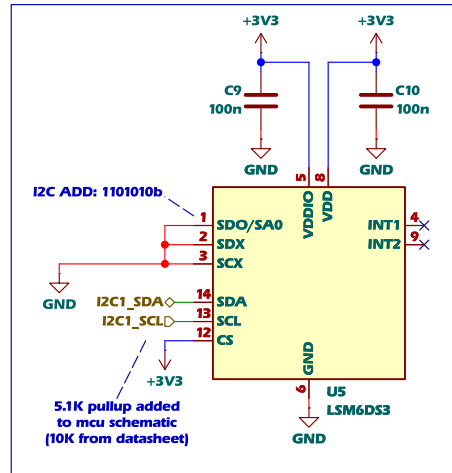
VBAT SENSE



CUSTOM ANALOG OR DIGITAL PORT



ACCELEROMETER & GYROSCOPE



Floppy Lab

Made by: Filippo Castellan

Sheet: /Sensors/
File: sensors.kicad_sch

Title: Ant Robot control board

Size: A4

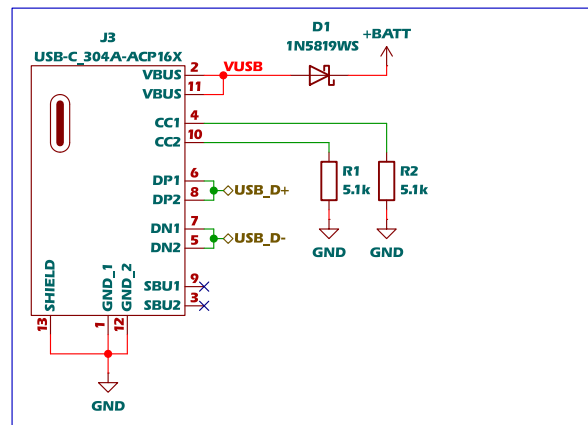
Date: 2025-09-18

Rev: 2.0

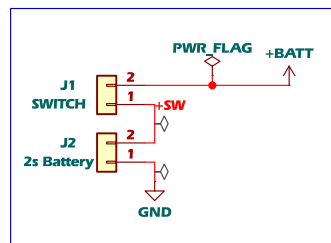
KiCad E.D.A. 9.0.3

Id: 5/6

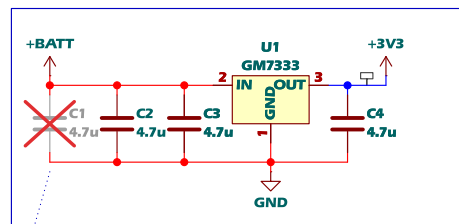
USB CONNECTOR FOR SETTINGS & FIRMWARE UPDATE



BATTERY CONNECTOR



3.3V LDOs



Not populated to reduce component number to 40 and enable to have 29\$ PCBA offer (PCBWay) for 15 PCBs
DOSE NOT AFFECT THE CORRECT WORKING



Floppy Lab

Made by: Filippo Castellan

Sheet: /Power/
File: power.kicad_sch

Title: Ant Robot control board

Size: A4

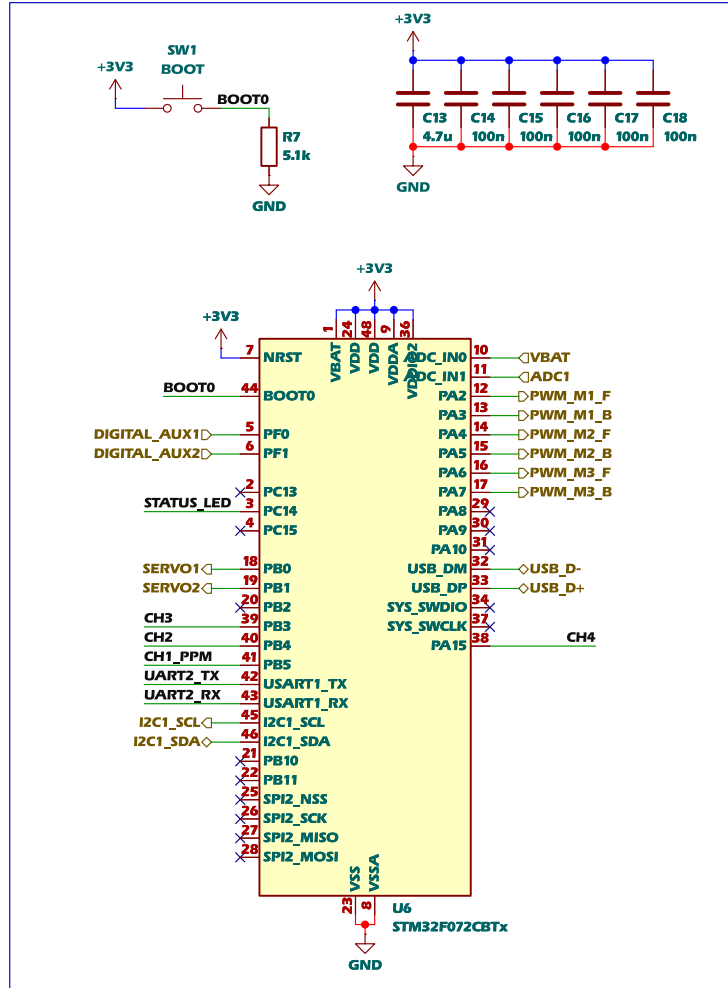
Date: 2025-09-18

Rev: 2.0

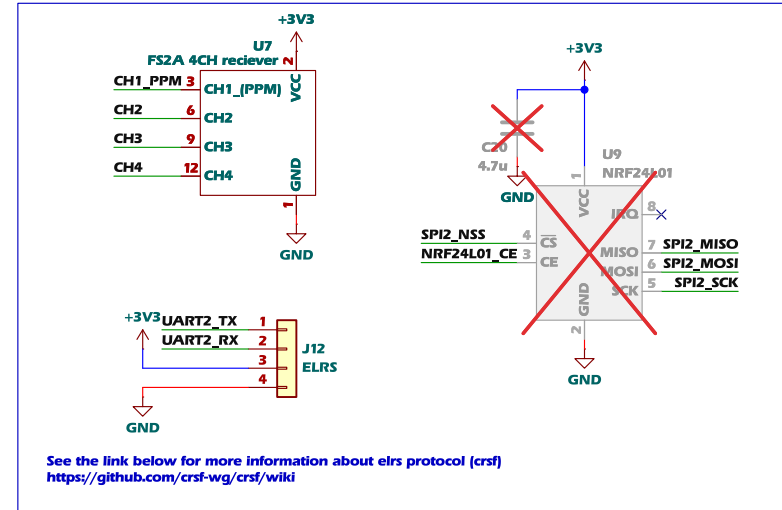
KiCad E.D.A. 9.0.3

Id: 2/6

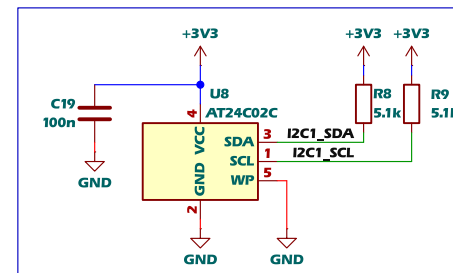
MICROCONTROLLER & BOOT BUTTON



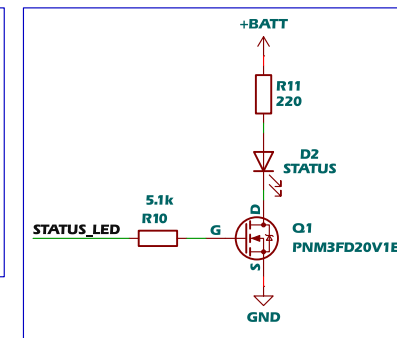
RECIEVERS



SETTINGS EEPROM MEMORY



STATUS LED



Floppy Lab

Made by: Filippo Castellan

Sheet: /MCU and RX/
File: MCU_RX.kicad_sch

Title: Ant Robot control board

Size: A4

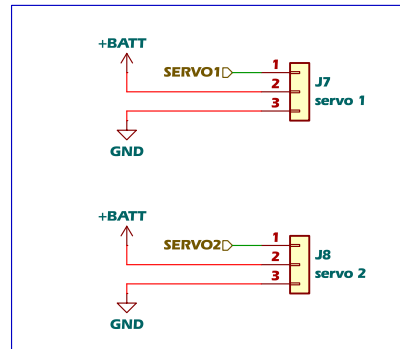
Date: 2025-09-18

Rev: 2.0

KiCad E.D.A. 9.0.3

Id: 6/6

SERVO CONNECTORS



Floppy Lab

Made by: Filippo Castellan

Sheet: /Servos/
File: servos.kicad_sch

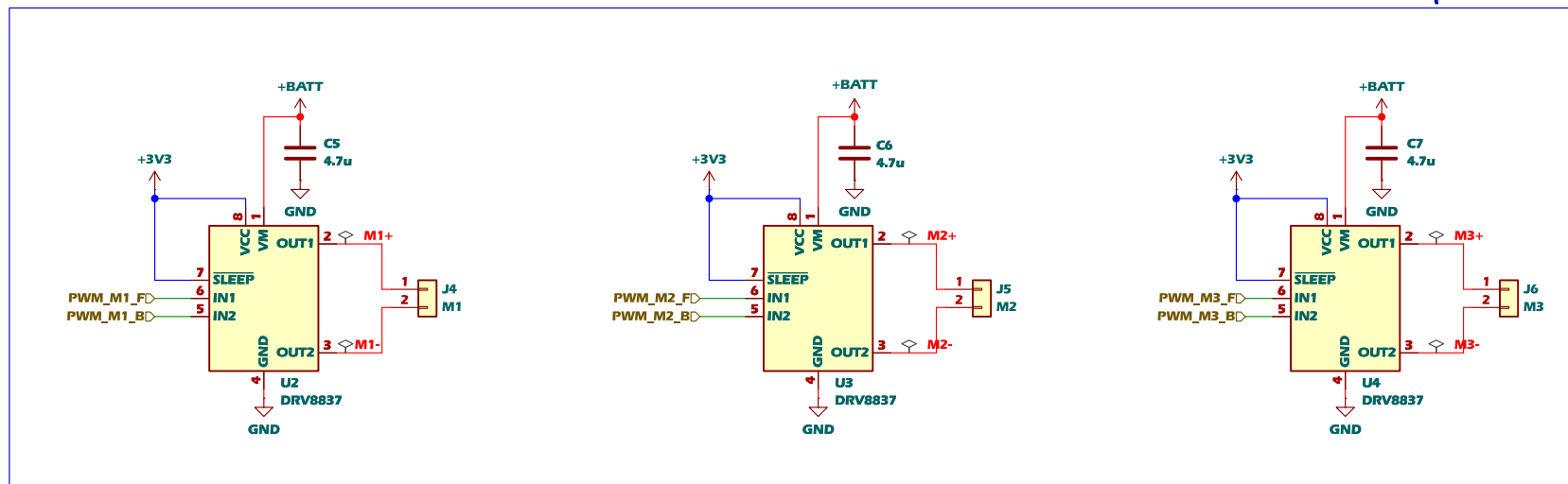
Title: Ant Robot control board

Size: A4
KiCad E.D.A. 9.0.3

Date: 2025-09-18

Rev: 2.0
Id: 4/6

DC MOTORS DRIVERS (11V 2A MAX)



Floppy Lab

Made by: Filippo Castellan

Sheet: /DC Motors/

File: dc_motors.kicad_sch

Title: Ant Robot control board

Size: A4

Date: 2025-09-18

Rev: 2.0

KiCad E.D.A. 9.0.3

Id: 3/6