

Floppy Lab

Made by: Filippo Castellan

Sheet: /  
File: ant control board v2.kicad\_sch

**Title: Ant Robot control board (DEVELOPMENT BOARD)**

Size: A4 Date: 2025-05-05

KiCad E.D.A. 9.0.2

Rev: 2.0

Id: 1/6

A

A

B

B

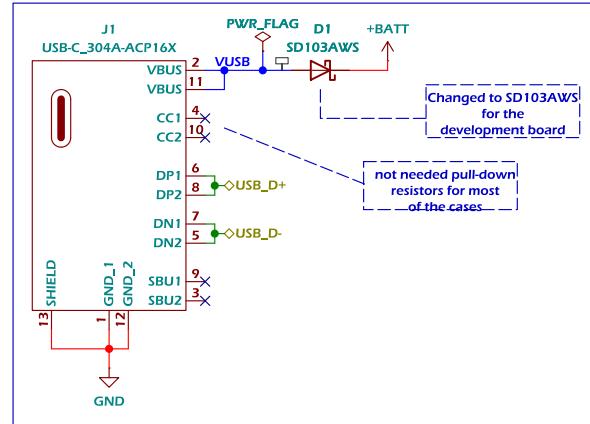
C

C

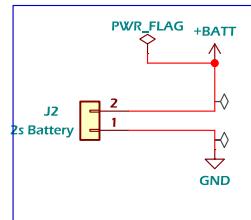
D

D

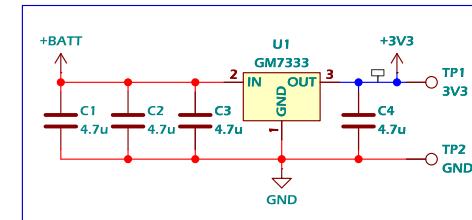
### USB CONNECTOR FOR SETTINGS & FIRMWARE UPDATE



### BATTERY CONNECTOR



### 3.3V LDOs



**Floppy Lab**

Made by: Filippo Castellan

Sheet: /Power/  
File: power.kicad\_sch

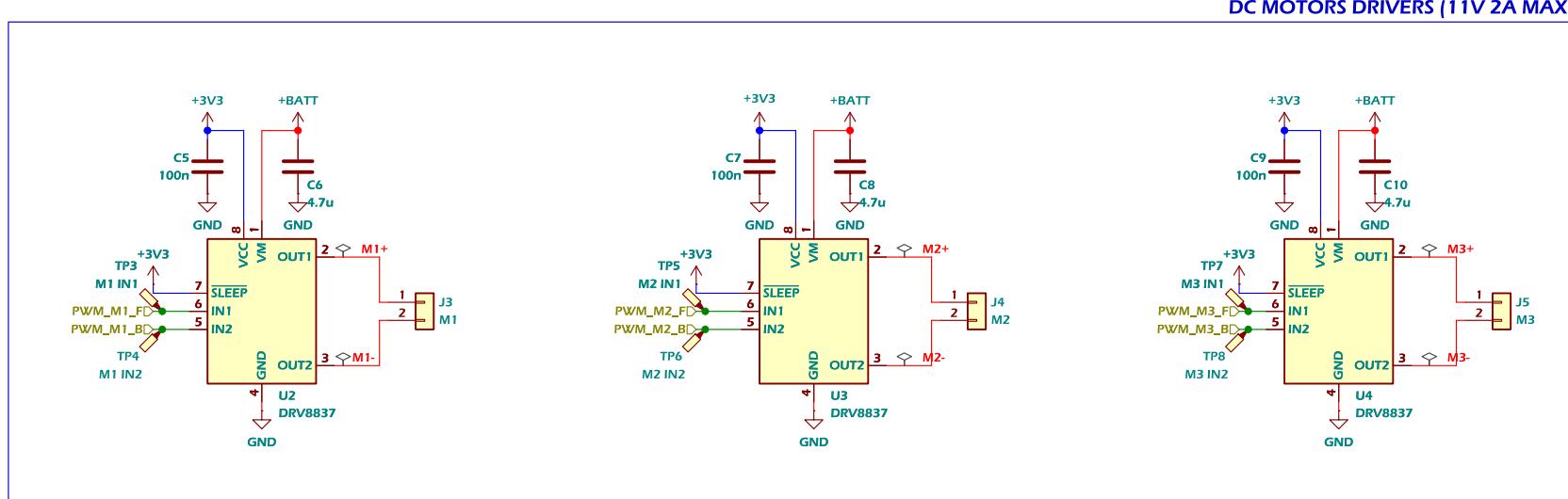
Title: Ant Robot control board

Size: A4 Date: 2025-05-05

KiCad E.D.A. 9.0.2

Rev: 2.0

Id: 2/6



**Floppy Lab**

Made by: Filippo Castellan

Sheet: /DC Motors/  
File: dc\_motors.kicad\_sch

**Title: Ant Robot control board**

Size: A4 Date: 2025-05-05

KiCad E.D.A. 9.0.2

Rev: 2.0

Id: 3/6

A

A

B

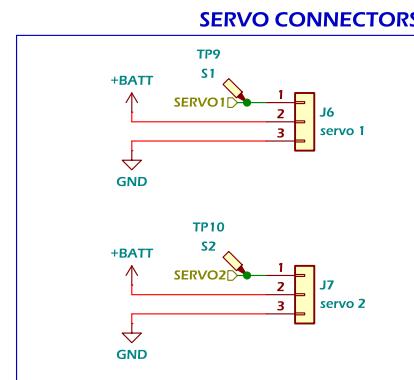
B

C

C

D

D

**Floppy Lab**

Made by: Filippo Castellan

Sheet: /Servos/  
File: servos.kicad\_sch**Title: Ant Robot control board**

Size: A4 Date: 2025-05-05

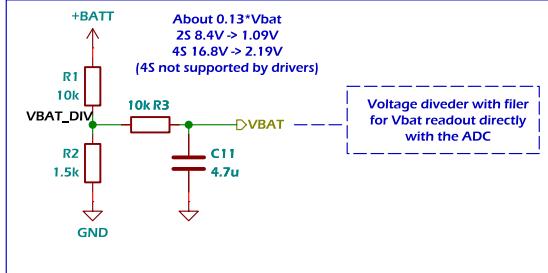
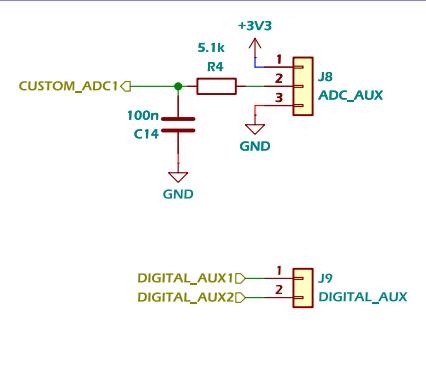
KiCad E.D.A. 9.0.2

Rev: 2.0

Id: 4/6

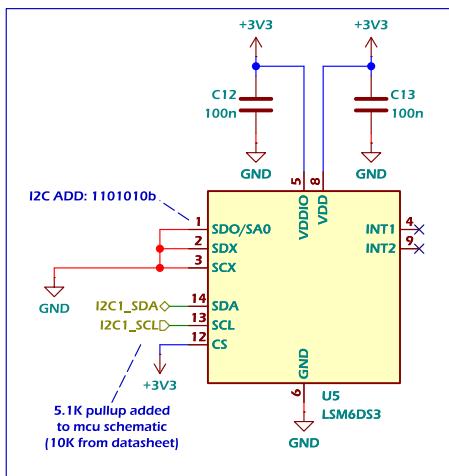
A

A

**VBAT SENSE****CUSTOM ANALOG OR DIGITAL PORT**

B

B

**ACCELEROMETER & GYROSCOPE**

C

C

D

D

**Floppy Lab**

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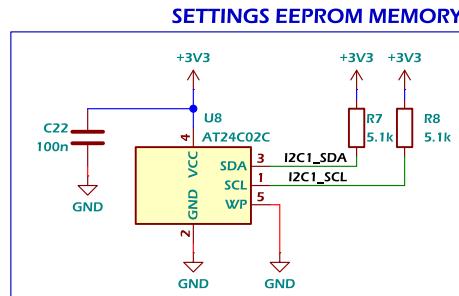
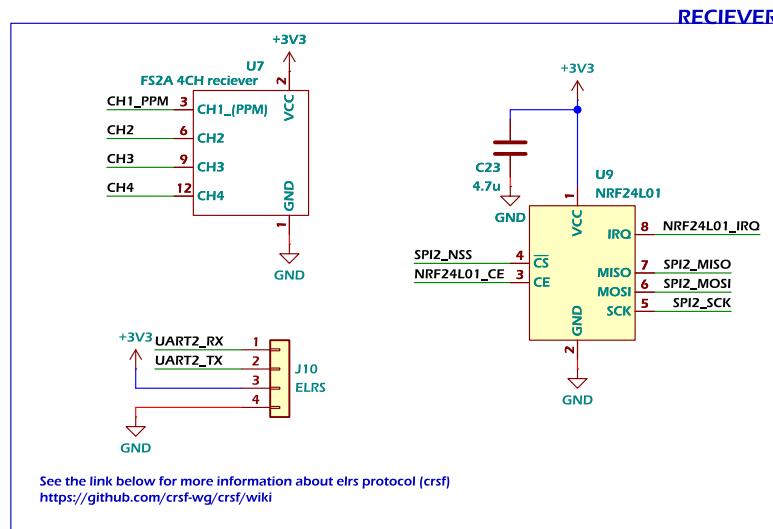
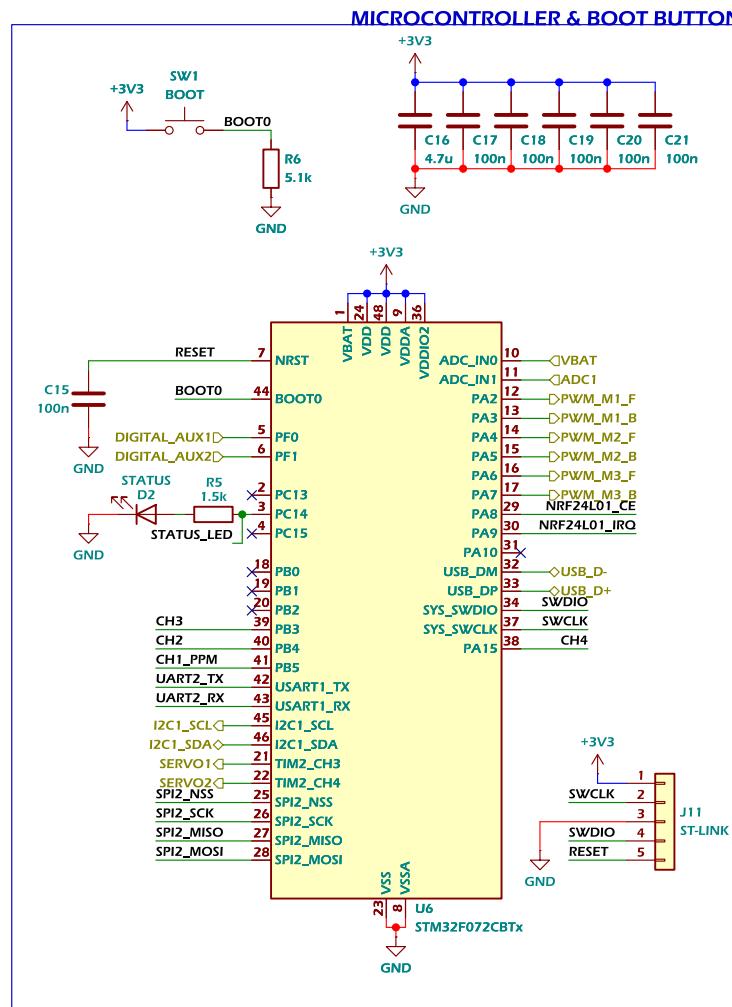
Sheet: /Sensors/  
File: sensors.kicad\_sch**Title: Ant Robot control board**

Size: A4 Date: 2025-05-05

KiCad E.D.A. 9.0.2

Rev: 2.0

Id: 5/6



**Floppy Lab**

Made by: Filippo Castellan

Sheet: /MCU and RX/  
File: MCU\_RX.kicad\_sch  
**Title: Ant Robot control board**  
Size: A4 Date: 2025-05-05 Rev: 2.0  
KiCad E.D.A. 9.0.2 Id: 6/6