

1 2 3 4 5 6

A

A

B

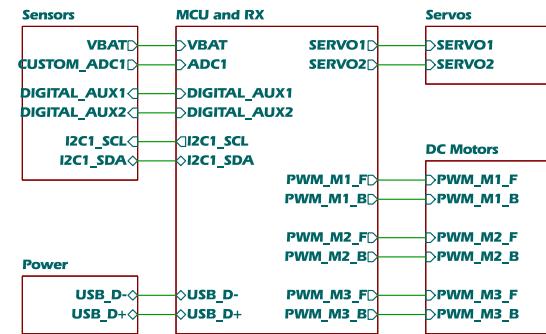
B

C

C

D

D



Floppy Lab

Made by: Filippo Castellan

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

Title: Ant Robot control board

Size: A4 Date: 2025-09-18

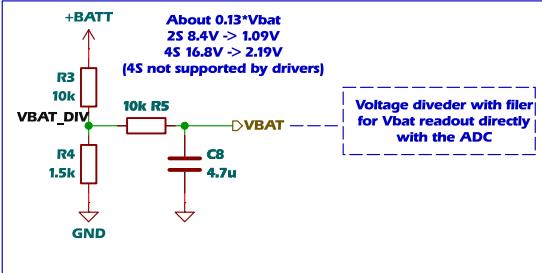
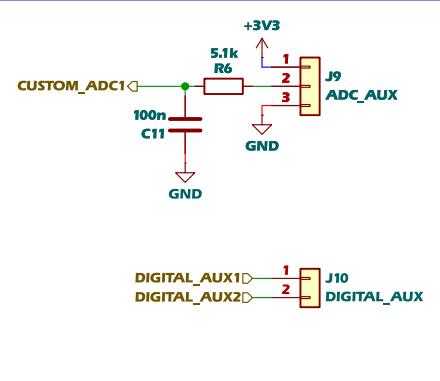
KiCad E.D.A. 9.0.3

Rev: 2.0

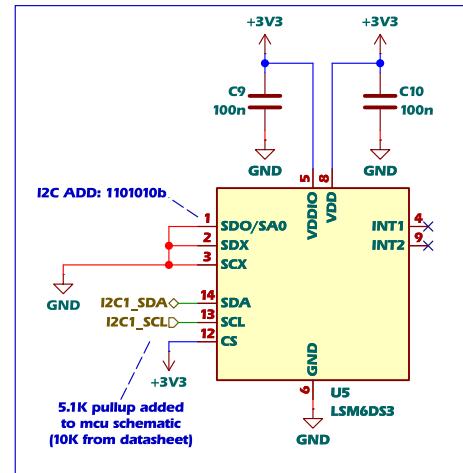
Id: 1/6

1 2 3 4 5 6

A

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

B

**ACCELEROMETER & GYROSCOPE**

C

D

**Floppy Lab**

Made by: Filippo Castellan

Sheet: /Sensors/  
File: sensors.kicad\_sch

**Title: Ant Robot control board**

Size: A4 Date: 2025-09-18

KiCad E.D.A. 9.0.3

Rev: 2.0

Id: 5/6

A

A

B

B

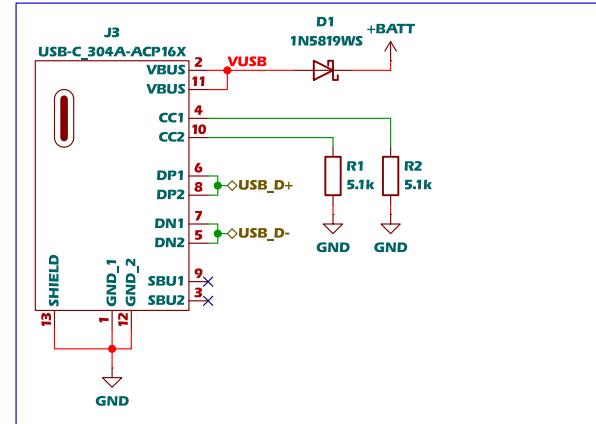
C

C

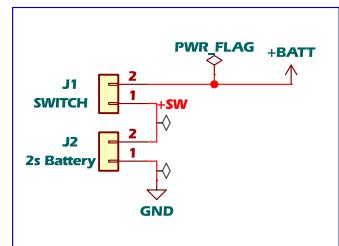
D

D

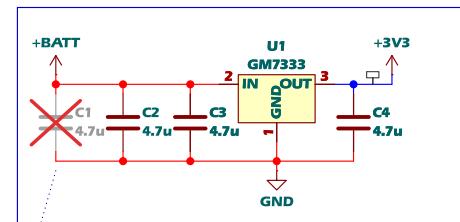
### USB CONNECTOR FOR SETTINGS & FIRMWARE UPDATE



### BATTERY CONNECTOR



### 3.3V LDOs



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



**Floppy Lab**

Made by: Filippo Castellan

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

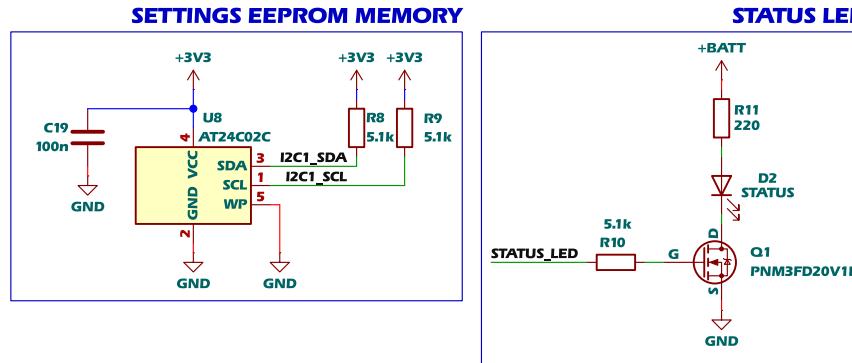
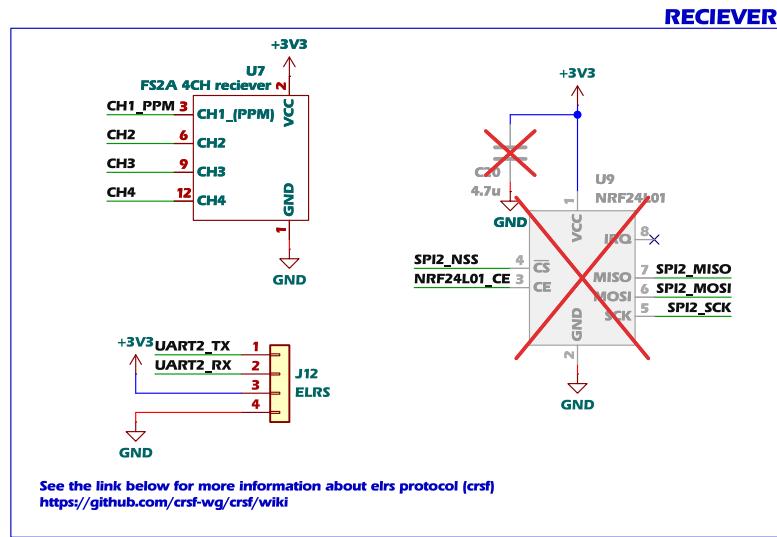
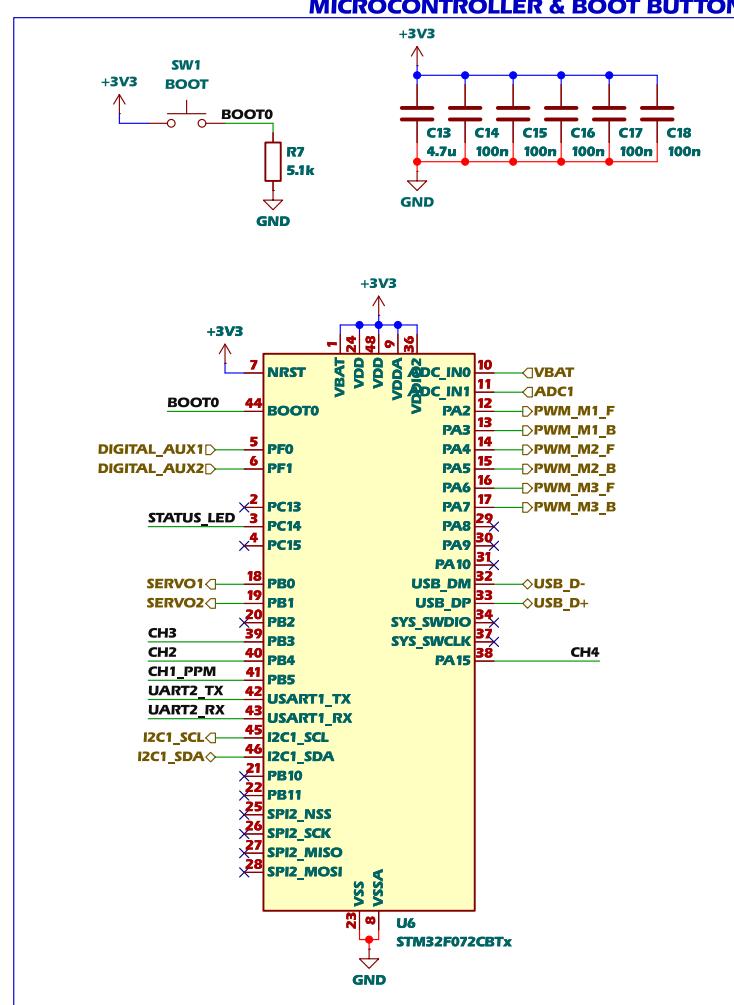
Title: Ant Robot control board

Size: A4 Date: 2025-09-18

KiCad E.D.A. 9.0.3

Rev: 2.0

Id: 2/6



**Floppy Lab**

Made by: Filippo Castellan

Sheet: /MCU and RX/  
File: MCU\_RX.kicad\_sch

## **Title: Ant Robot control board**

**Size: A4**      **Date: 2025-09-18**

KiCad E.D.A. 9.0.3

**Rev: 2.0**

Id: 6/6

1 2 3 4 5 6

A

A

B

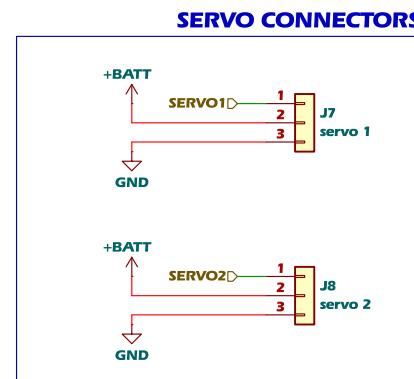
B

C

C

D

D



**Floppy Lab**

Made by: Filippo Castellan

Sheet: /Servos/  
File: servos.kicad\_sch

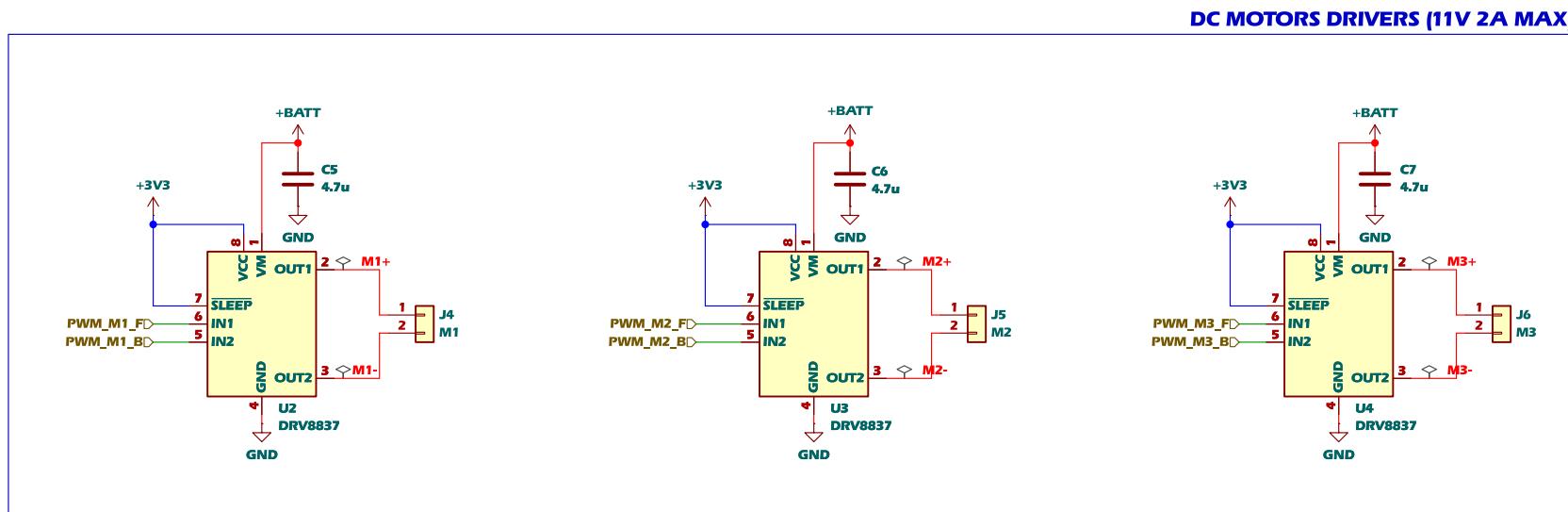
**Title: Ant Robot control board**

Size: A4 Date: 2025-09-18

KiCad E.D.A. 9.0.3

Rev: 2.0  
Id: 4/6

1 2 3 4 5 6



**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

KiCad E.D.A. 9.0.3

Rev: 2.0

Id: 3/6