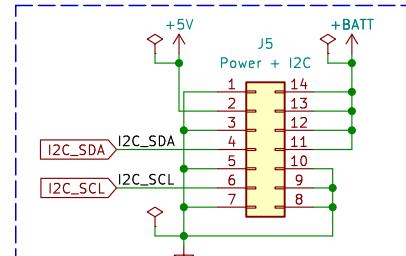
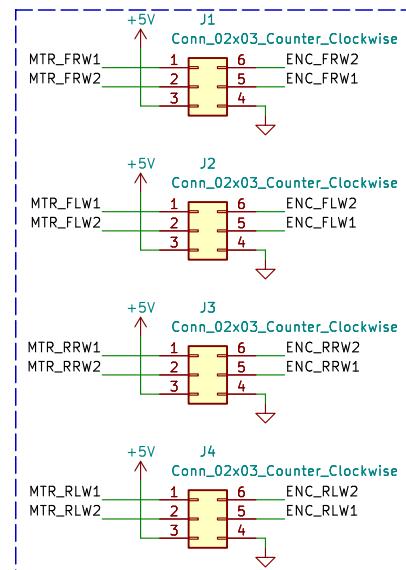


1 2 3 4 5 6

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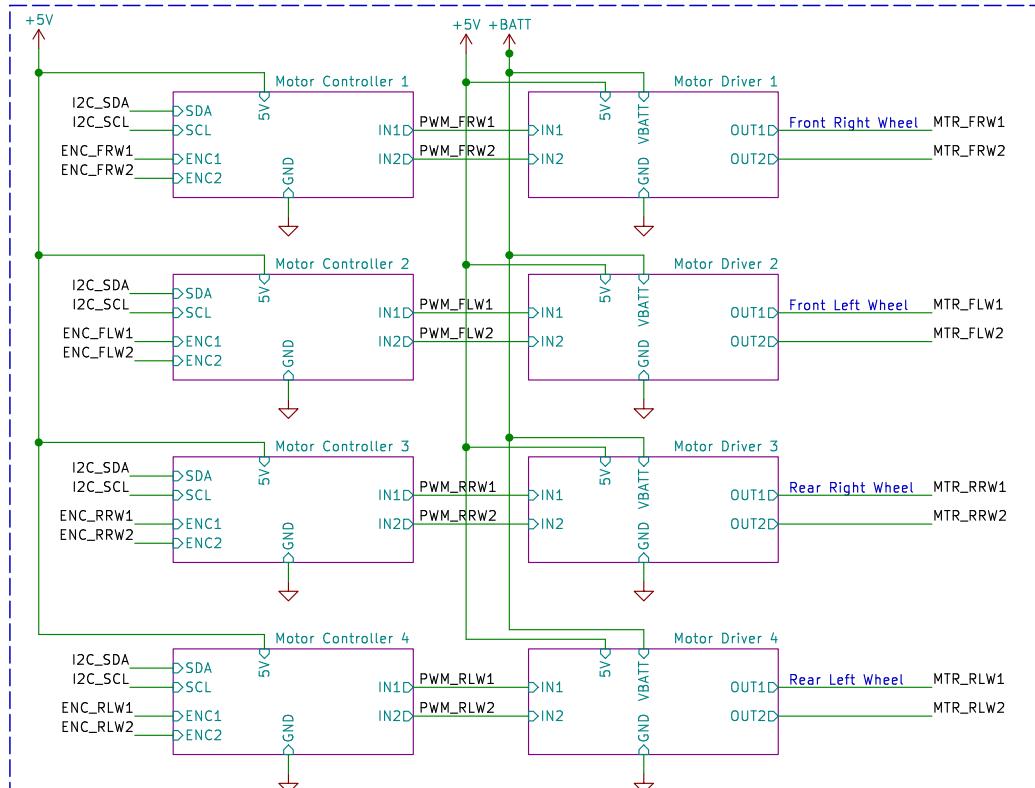


I2C Command Input from Master Arduino

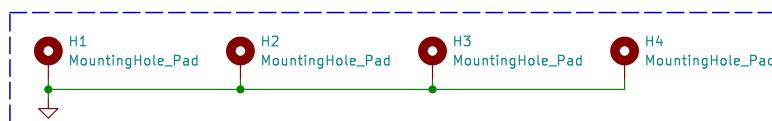


Encoders + Output pins

J1,...,J4 : Digikey PPTC032LFBN-RC
J5 : Digikey SFH11-PBPC-D07-ST-BK



Motor Controllers + Drivers



Mounting Holes

Author: Ilyas Asmouki

EPFL Xplore

Sheet: /
File: Motor Controllers.kicad_sch

Title: Motor Controllers

Size: A4 Date: 2024-04-06
KiCad E.D.A. kicad 7.0.9



Rev: 2.0
Id: 1/9

1 2 3 4 5 6

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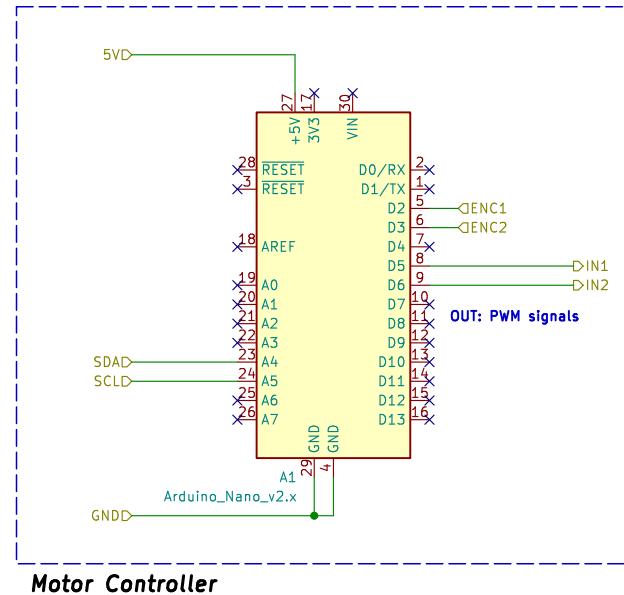
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Sheet: /Motor Controller 1/
File: motorcontroller.kicad_sch

Title:

Size: A4 | Date:
KiCad E.D.A. kicad 7.0.9

Rev:
Id: 2/9

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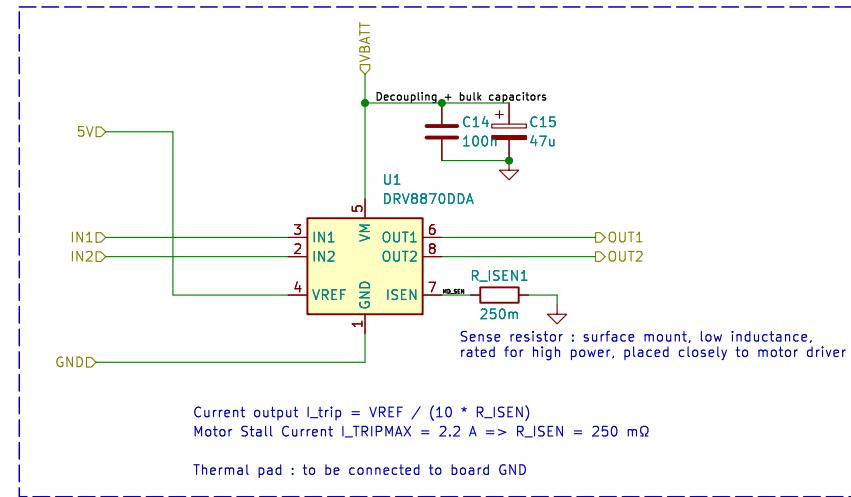
B

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Motor Driver

C14 : Mouser UMK105B7104MV-FR
 C15 : Mouser VZL470M1VTR-0606
 R_ISEN1 : Mouser MFHA2512R2500FE

Sheet: /Motor Driver 1/
 File: motordriver.kicad_sch

Title:

Size: A4 | Date:
 KiCad E.D.A. kicad 7.0.9



Rev:
 Id: 3/9

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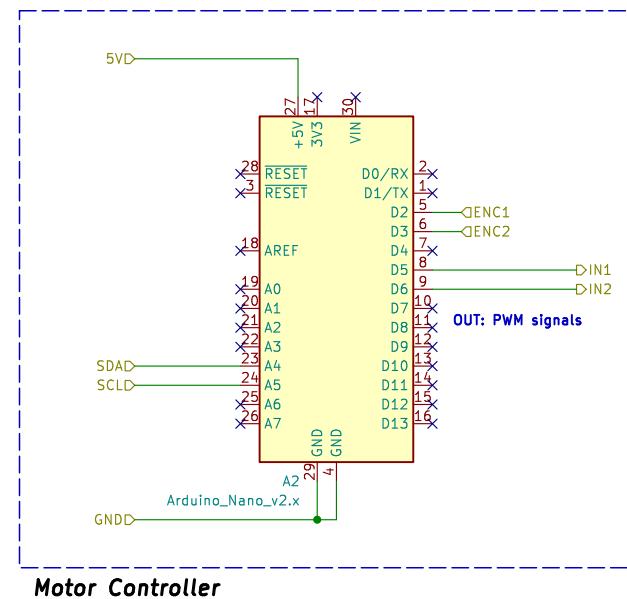
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KiCad E.D.A. kicad 7.0.9	Rev: Id: 4/9

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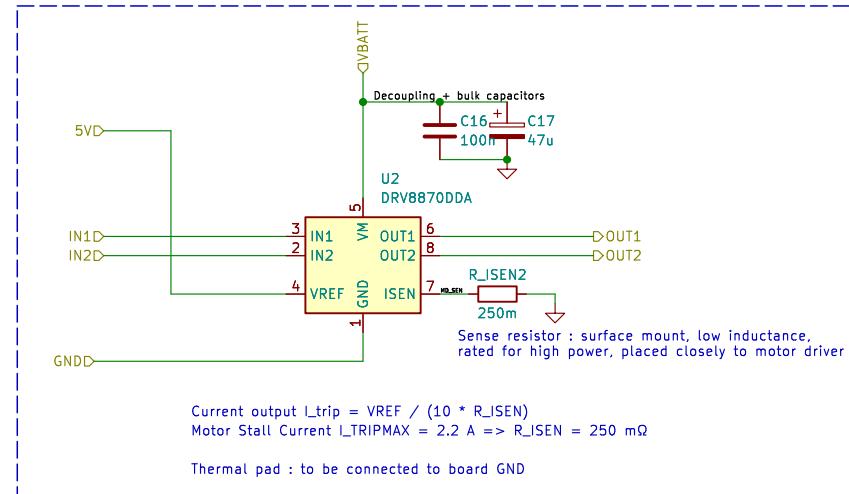
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Motor Driver

C14 : Mouser UMK105B7104MV-FR
 C15 : Mouser VZL470M1VTR-0606
 R_ISEN1 : Mouser MFHA2512R2500FE

Sheet: /Motor Driver 2/
 File: motordriver.kicad_sch

Title:

Size: A4 | Date:
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Rev:
 Id: 5/9



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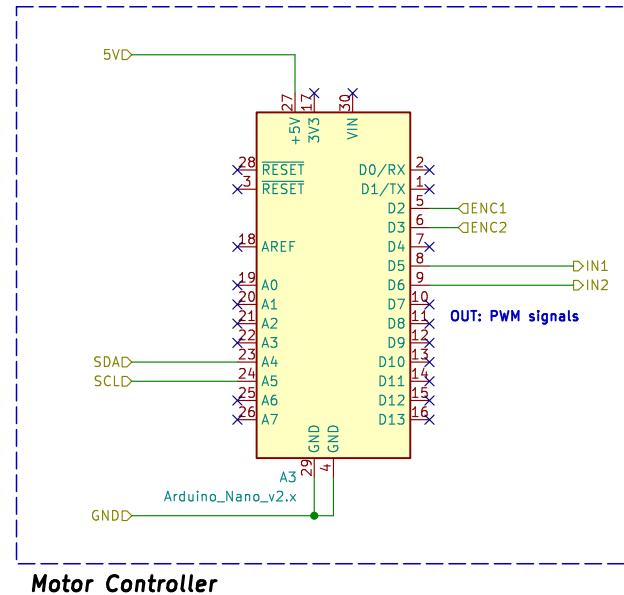
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Title:

Size: A4 | Date:
KiCad E.D.A. kicad 7.0.9

Rev:
Id: 6/9

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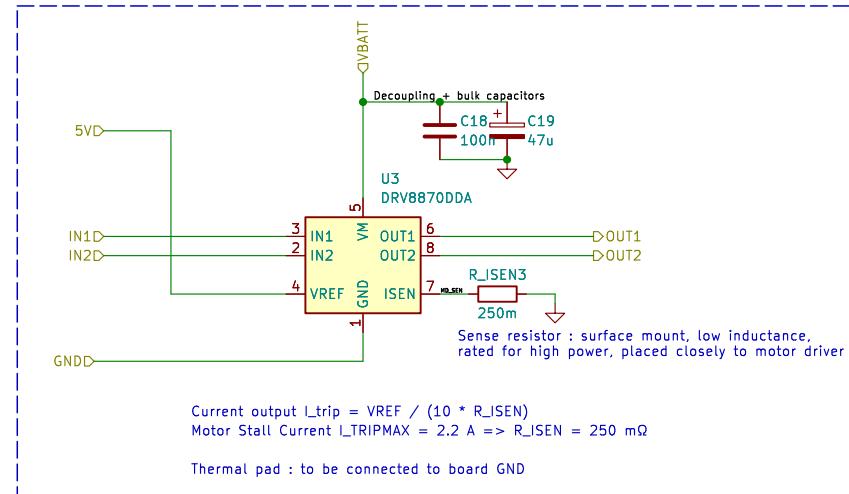
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Motor Driver

C14 : Mouser UMK105B7104MV-FR
 C15 : Mouser VZL470M1VTR-0606
 R_ISEN1 : Mouser MFHA2512R2500FE

Sheet: /Motor Driver 3/
 File: motordriver.kicad_sch

Title:

Size: A4 Date:
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Rev:
 Id: 7/9

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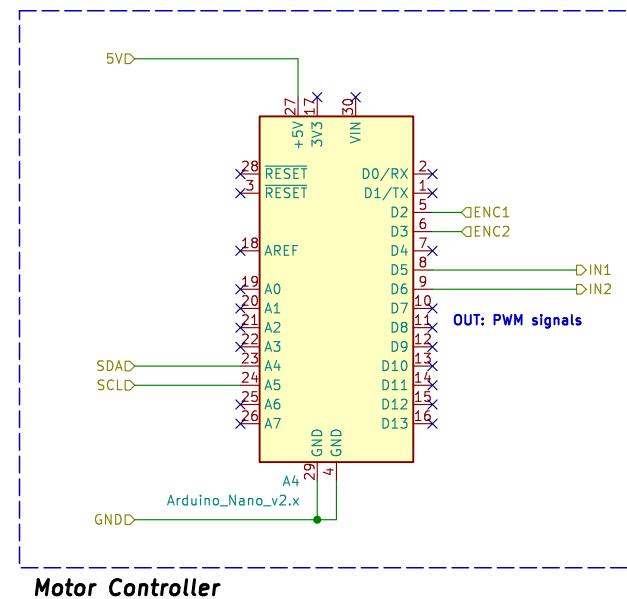
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Sheet: /Motor Controller 4/
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Title:

Size: A4 | Date:
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Rev:
Id: 8/9



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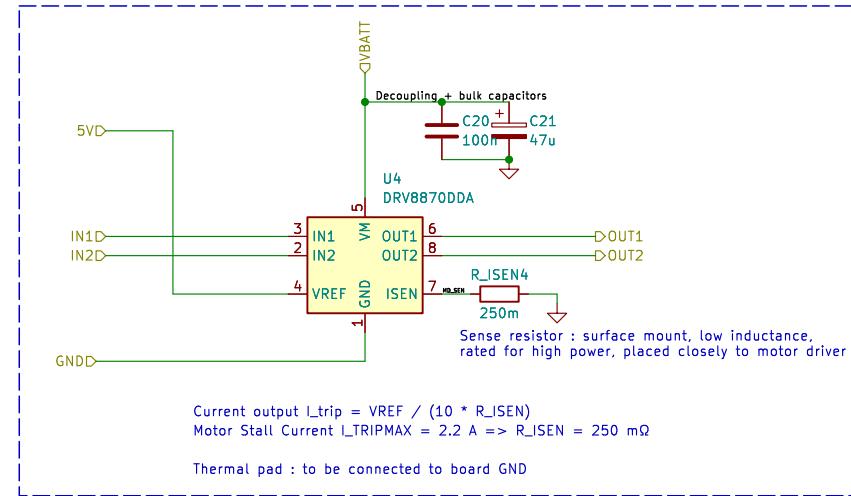
B

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D



Motor Driver

C14 : Mouser UMK105B7104MV-FR
 C15 : Mouser VZL470M1VTR-0606
 R_ISEN1 : Mouser MFHA2512R2500FE

Sheet: /Motor Driver 4/
 File: motordriver.kicad_sch

Title:

Size: A4 Date:
 KiCad E.D.A. kicad 7.0.9



Rev:
 Id: 9/9