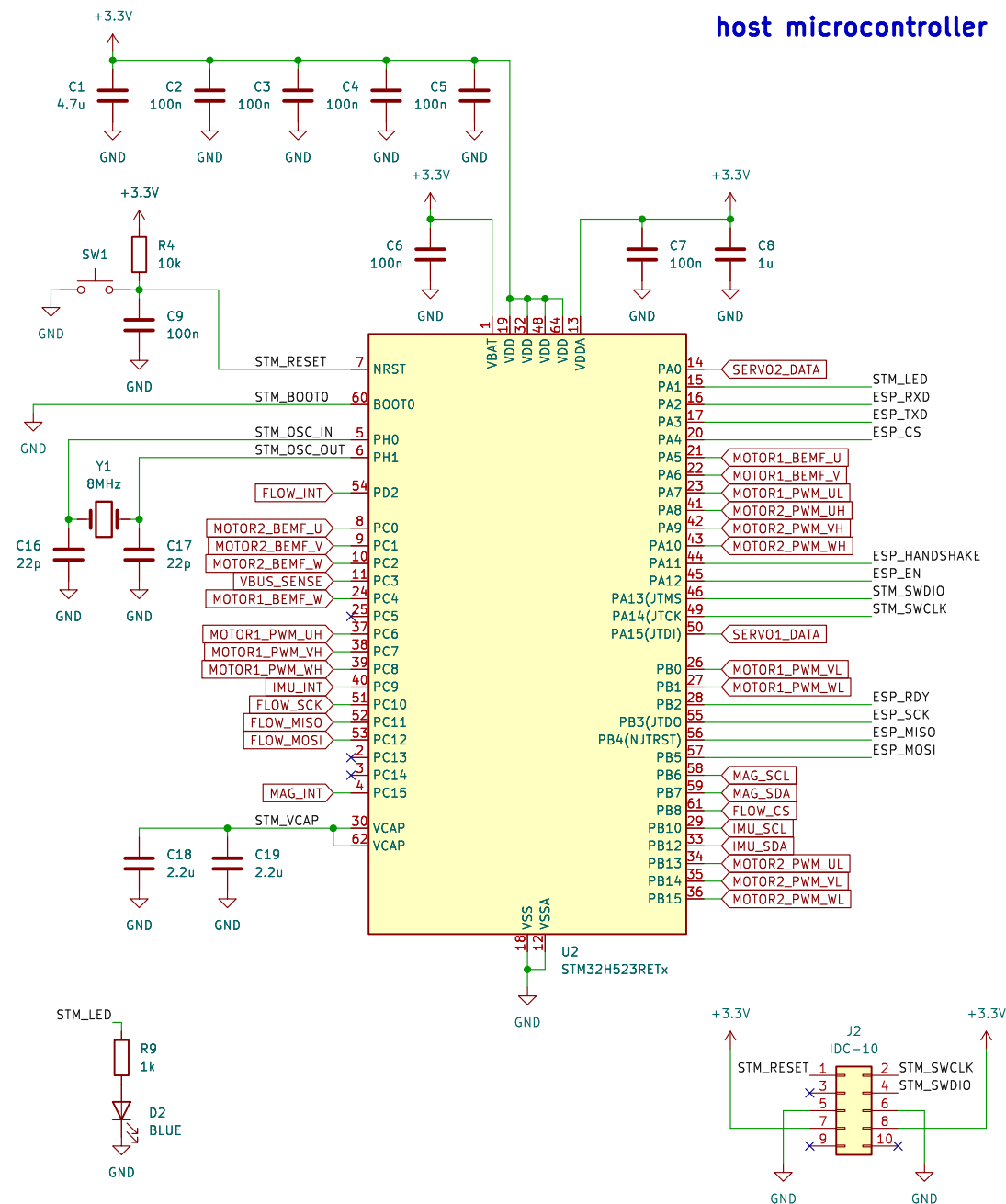
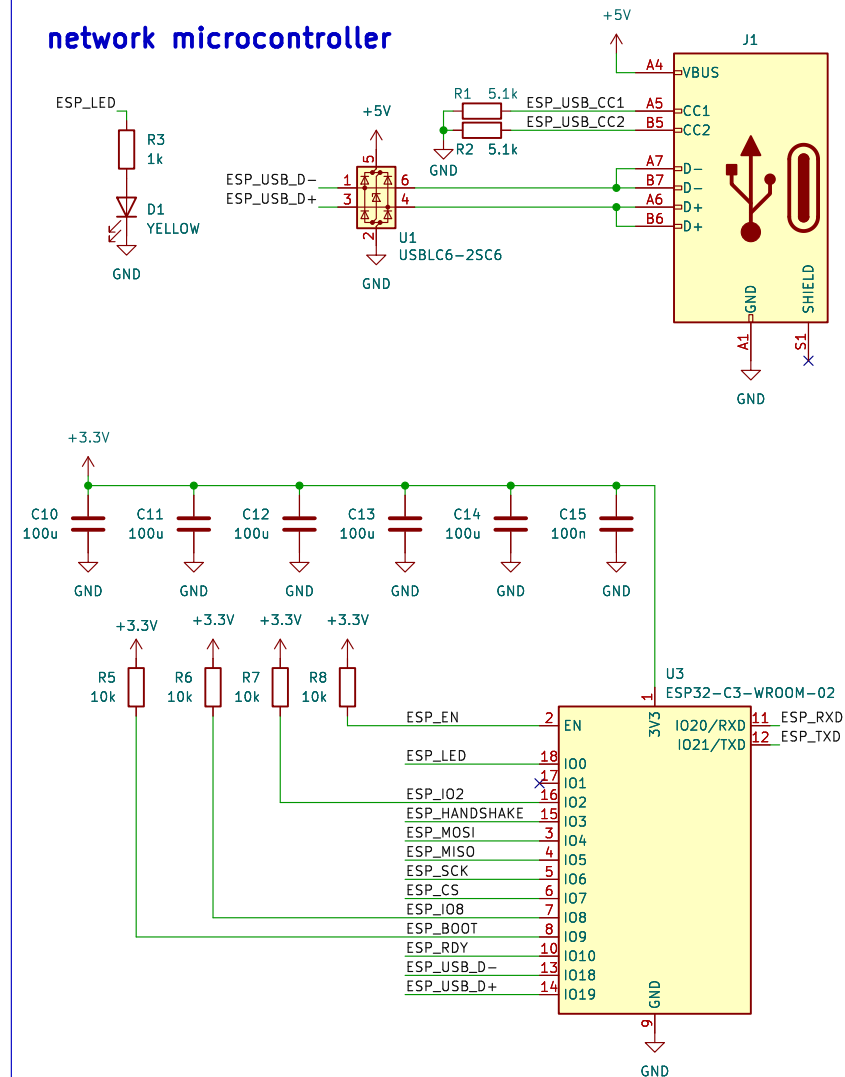


## host microcontroller



## network microcontroller



Author: Eryk Możdżeń

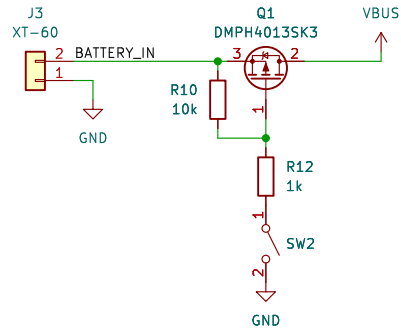
Sheet: /microcontroller/  
File: microcontroller.kicad\_sch

**Title: Hogger2 Controller**

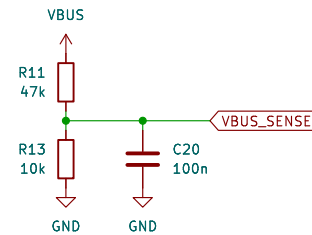
Size: A4 Date: 2025-03-09  
KiCad E.D.A. 9.0.0

**Rev: V1.1**  
Id: 2/7

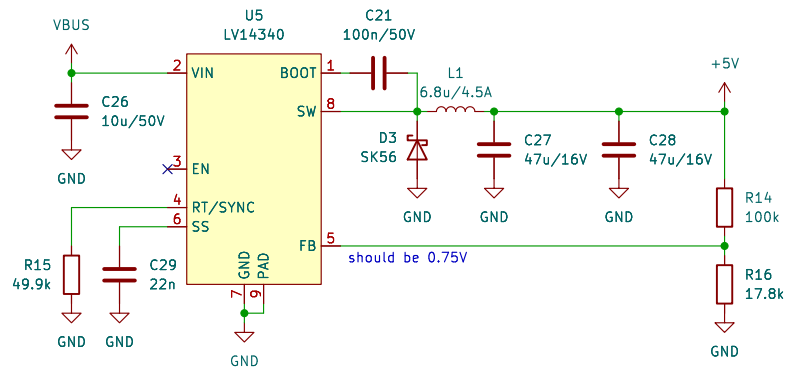
## power input



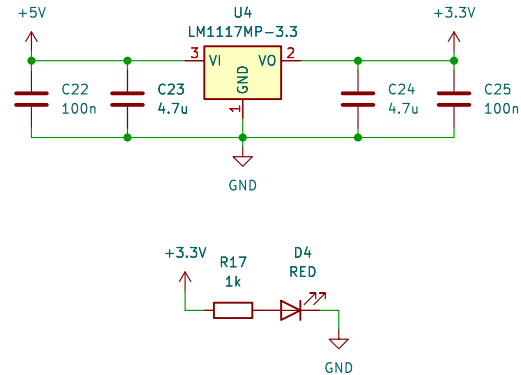
## VBUS voltage measurement



## 5V domain



## 3.3V domain



Author: Eryk Możdżeń

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

**Title: Hogger2 Controller**

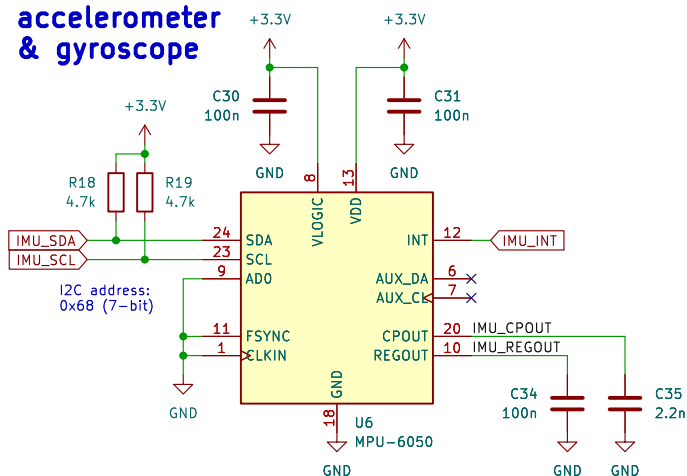
Size: A4 Date: 2025-03-09

KiCad E.D.A. 9.0.0

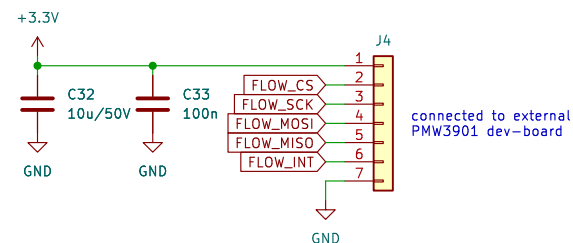
**Rev: V1.1**

Id: 3/7

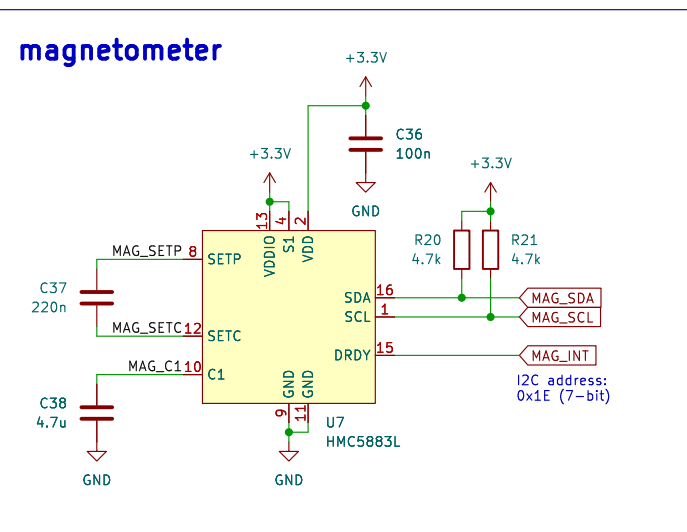
## accelerometer & gyroscope



## optical flow



## magnetometer



Author: Eryk Możdżeń

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

**Title: Hogger2 Controller**

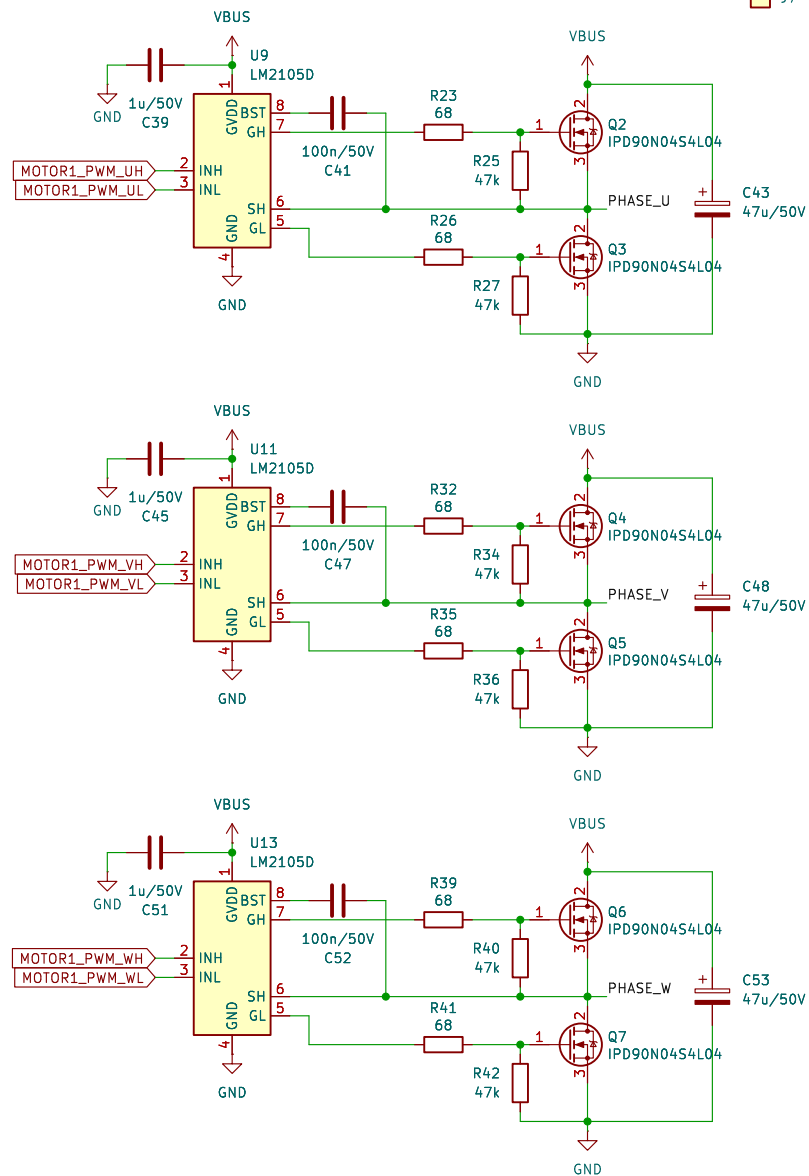
Size: A4 Date: 2025-03-09

KiCad E.D.A. 9.0.0

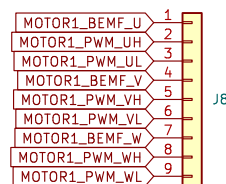
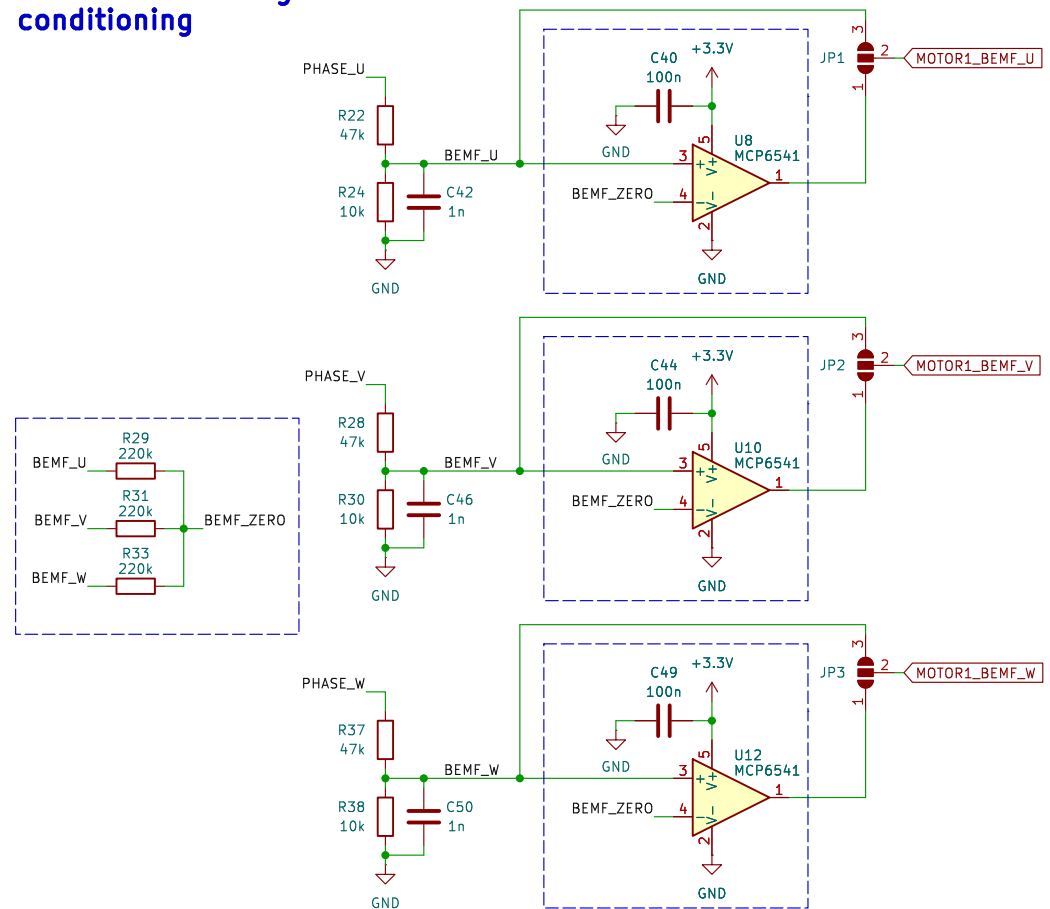
**Rev: V1.1**

Id: 4/7

## MOTOR 1 triple half-bridge



## MOTOR 1 BEMF signals conditioning



Author: Eryk Możdżeń

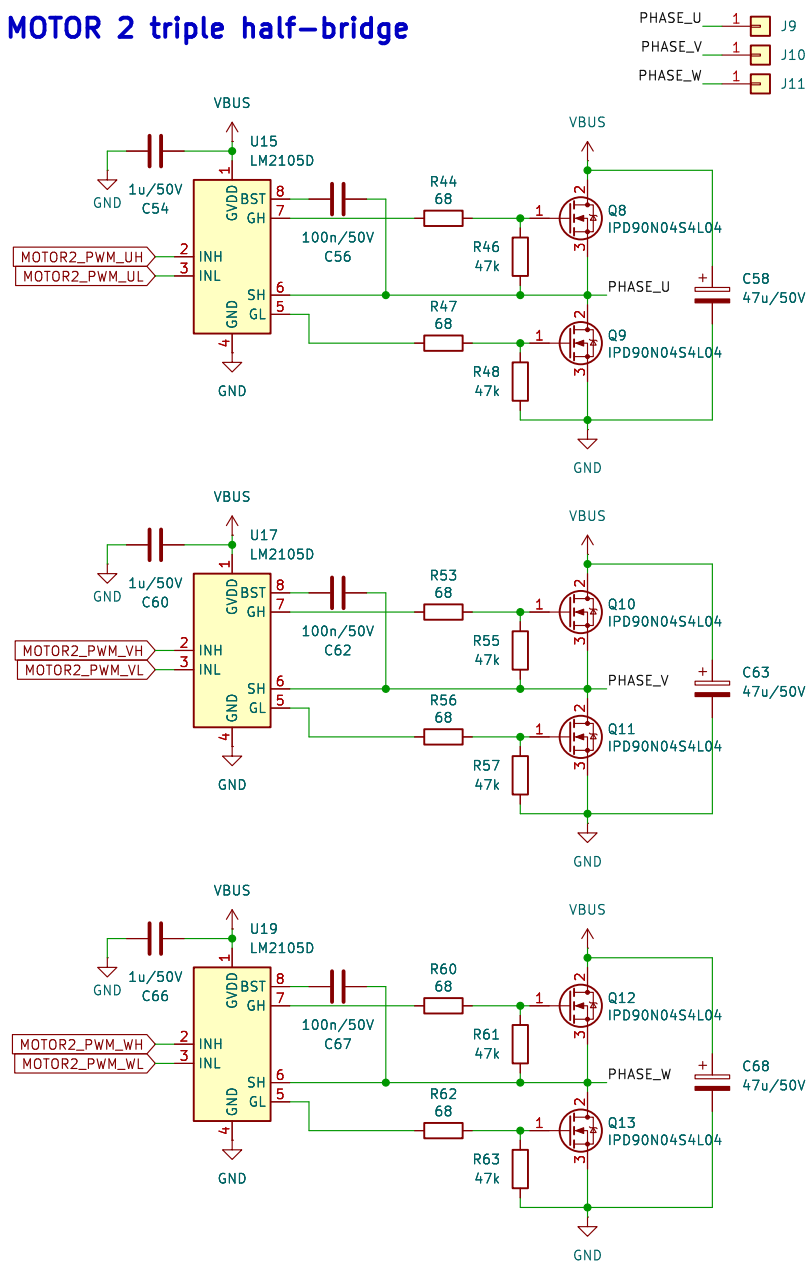
Sheet: /motor1/  
File: motor1.kicad\_sch

**Title: Hogger2 Controller**

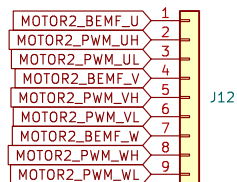
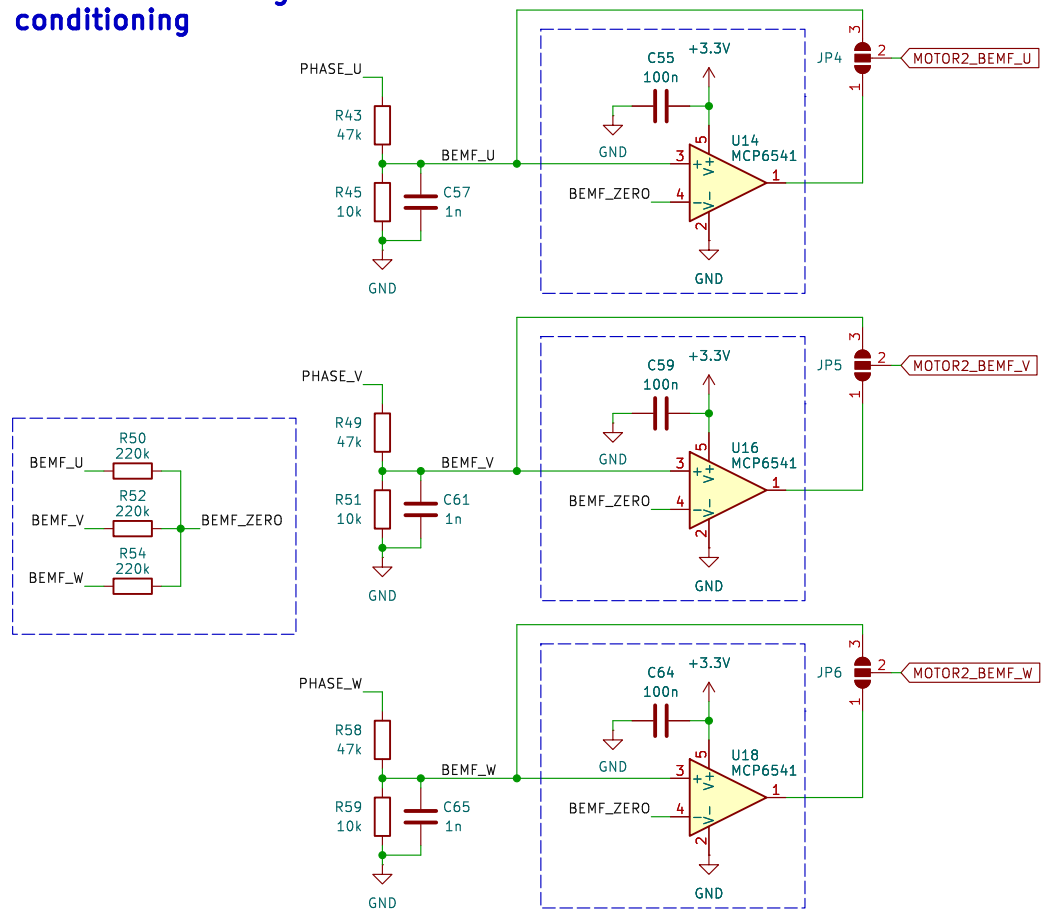
Size: A4 Date: 2025-03-09  
KiCad E.D.A. 9.0.0

**Rev: V1.1**  
Id: 7/7

## MOTOR 2 triple half-bridge



## MOTOR 2 BEMF signals conditioning



Author: Eryk Możdżeń

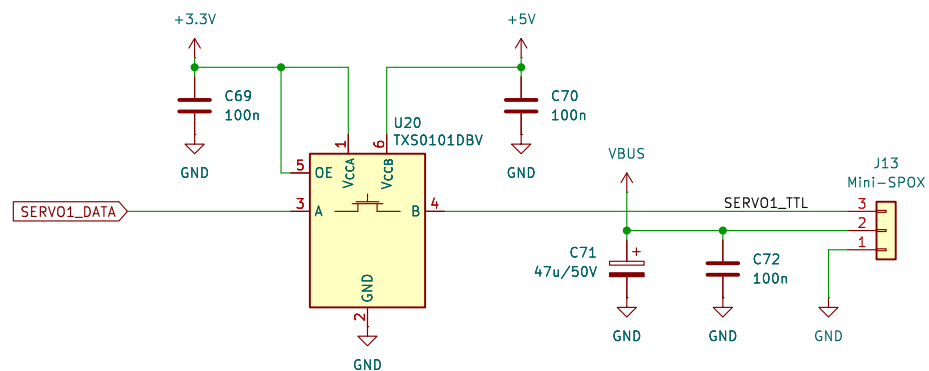
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File: motor2.kicad\_sch

**Title: Hogger2 Controller**

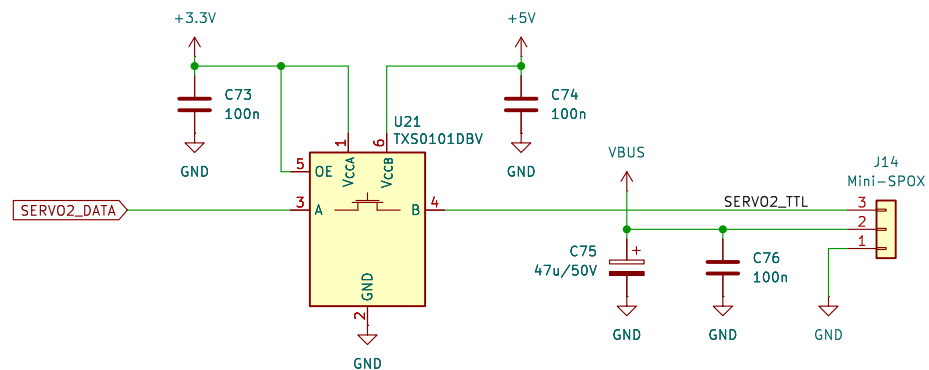
Size: A4 Date: 2025-03-09  
KiCad E.D.A. 9.0.0

**Rev: V1.1**  
Id: 7/7

### SERVO 1 Dynamixel TTL Multi-Drop Bus



### SERVO 2 Dynamixel TTL Multi-Drop Bus



Author: Eryk Możdżeń

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

**Title: Hogger2 Controller**

Size: A4 Date: 2025-03-09

KiCad E.D.A. 9.0.0

**Rev: V1.1**

Id: 8/7