

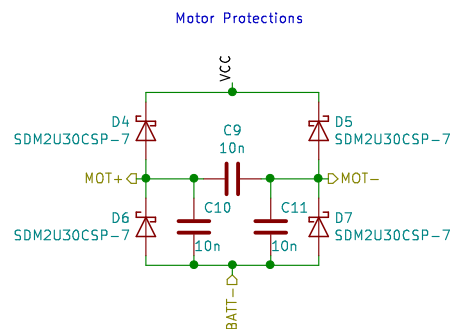
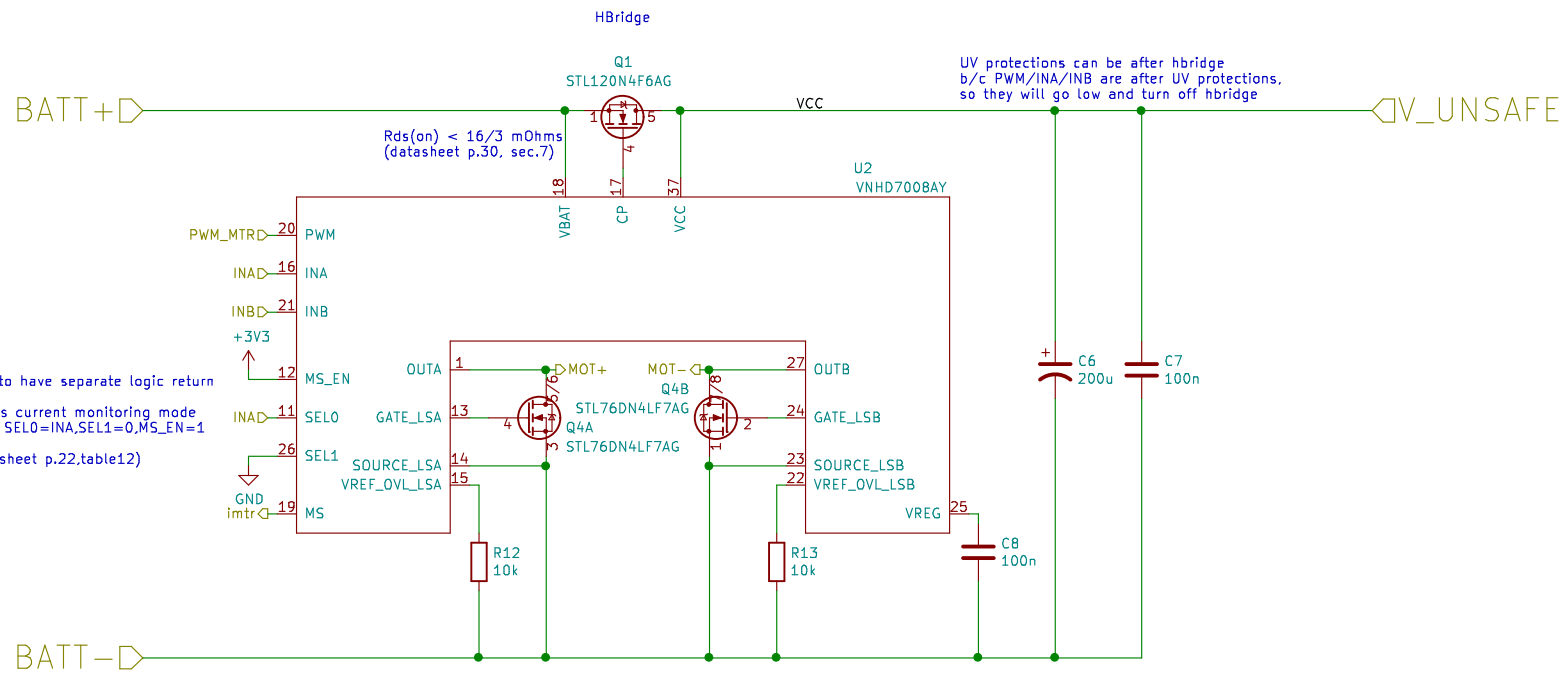
Marion Anderson  
2021

Sheet: /micro/  
File: micro.sch

**Title: KyberBoard**

Size: A4	Date:
KiCad E.D.A. kicad 5.0.2+dfsg1-1	

Rev: 1  
Id: 2/6



HBridge Subcircuit

Marion Anderson  
2021

Sheet: /hbridge/  
File: hbridge.sch

**Title: KyberBoard**

Size: A4  
KiCad E.D.A. kicad 5.0.2+dfsg1-1

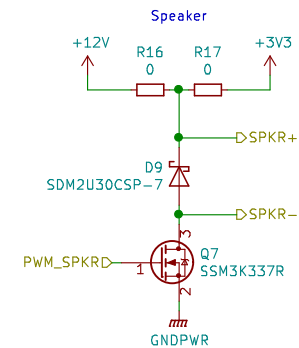
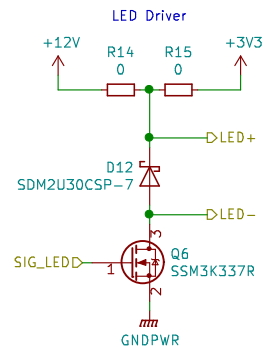
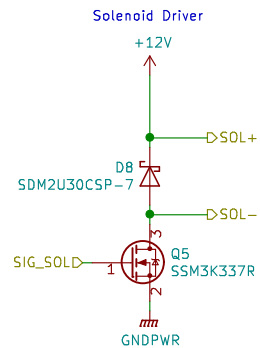
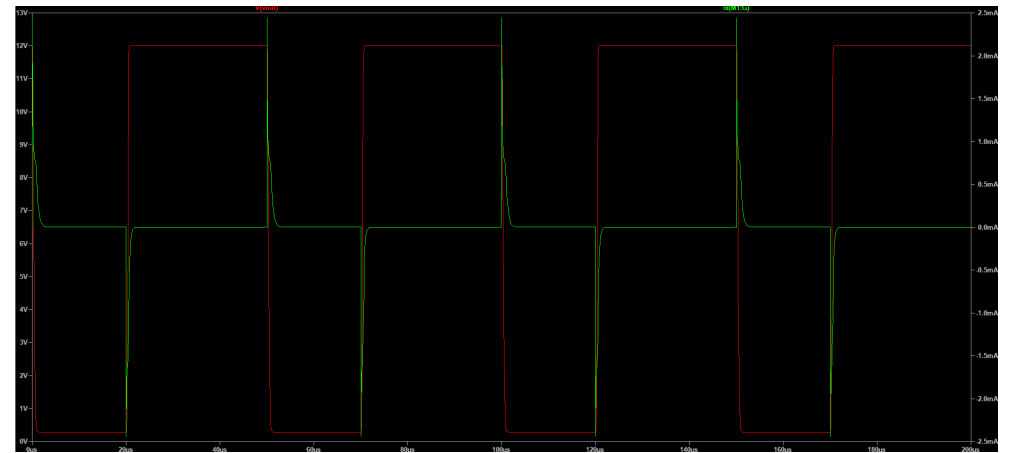
Date:  
Id: 3/6

Rev: 1

Seems safe to drive NMOS with GPIO directly  
Sims also show 20kHz waveform well-preserved

DMTH4005SK3Q-13 Cin: 120pF  
GPIO Zout: 50 Ohms  
Imax: 16 mA

Safety factor of 6.4 with these FETs;  
no need for 0-ohm jumpers



Low-side switching for lower component count

#### Actuator Drivers

Marion Anderson  
2021

Sheet: /actuators/  
File: actuators.sch

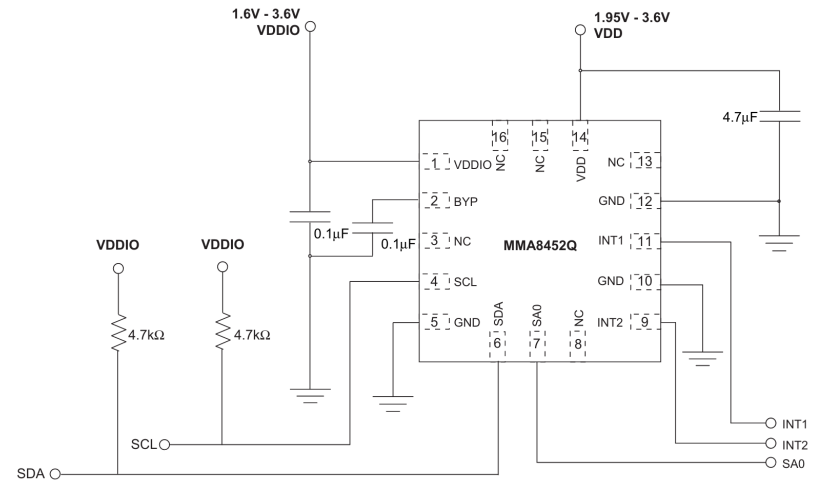
**Title: KyberBoard**

Size: A4  
KiCad E.D.A. kicad 5.0.2+dfsg1-1

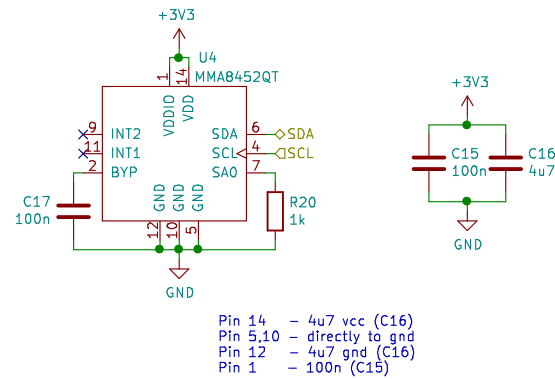
Date:

**Rev: 1**  
Id: 4/6





Datasheet reference schematic.  
NOTE: MCU uses internal pullups on I2C bus



## Accelerometer Subcircuit

Marion Anderson  
2021

Sheet: /acc/  
File: acc.sch

**Title: KyberBoard**

Size: A4 Date:

KiCad E.D.A. kicad 5.0.2+dfsg1-1

**Rev: 1**

Id: 6/6