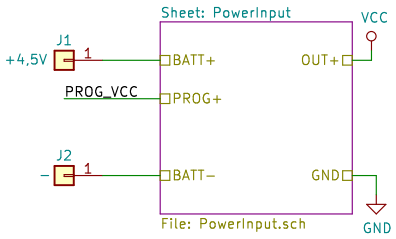
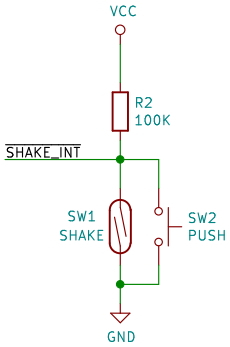
Dynamic Xmas Gift Label

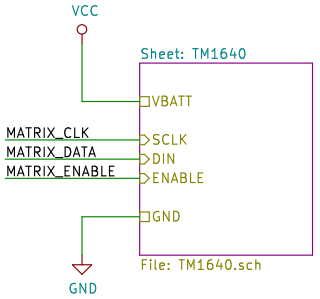
Power input & switching



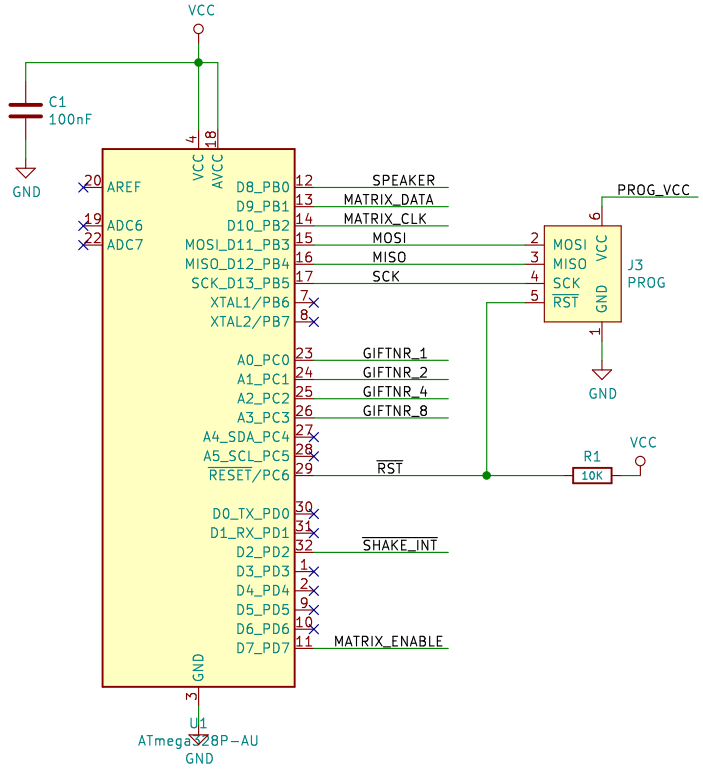
Vibration sensor



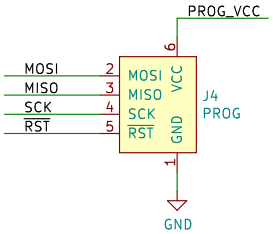
LED matrix module



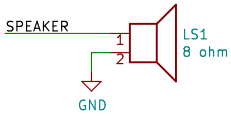
Microcontroller



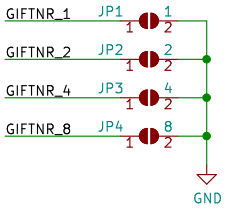
Programming port



Speaker



Gift number



https://github.com/jwaeles/

Jordan Waeles

Sheet: /

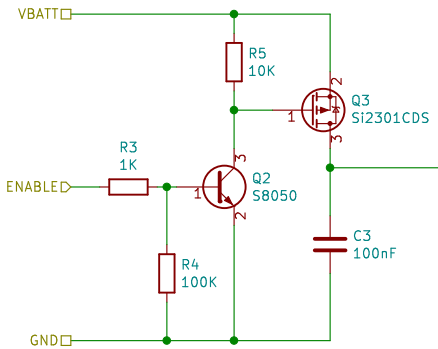
File: plan_b.sch

Title: Dynamic Xmas Gift Label

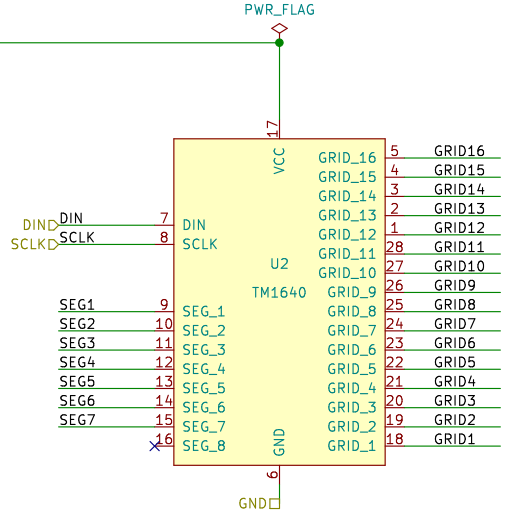
Size: A4	Date: 2019-12-04	**Rev: rev0**
KiCad E.D.A. kicad (5.1.4)-1		Id: 1/4

LED matrix module

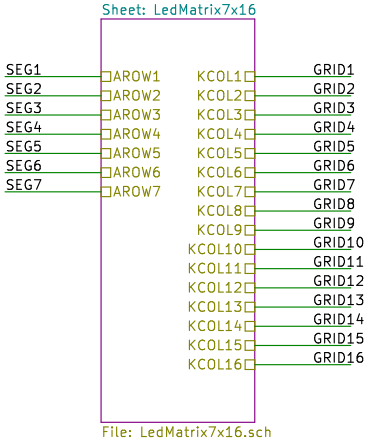
power switching



LED driver



LED matrix



https://github.com/jwaeles/

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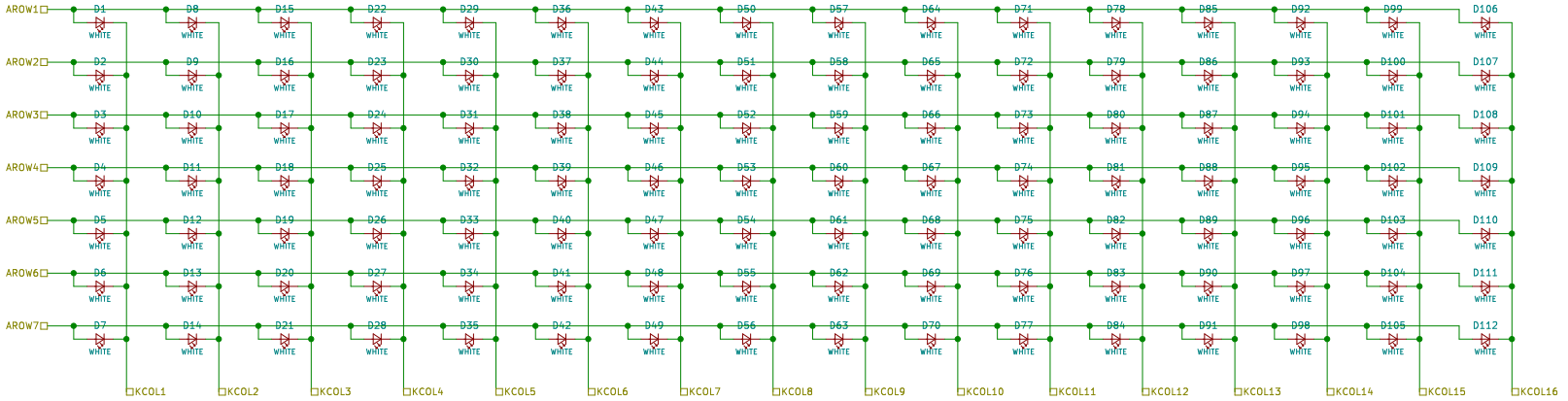
Sheet: /TM1640/
File: TM1640.sch

Title: Dynamic Xmas Gift Label

Size: A4	Date: 2019-12-04	**Rev: rev0**
KiCad E.D.A. kicad (5.1.4)-1		Id: 2/4

LED MATRIX

ANODES



CATHODES

https://github.com/jwaeles/

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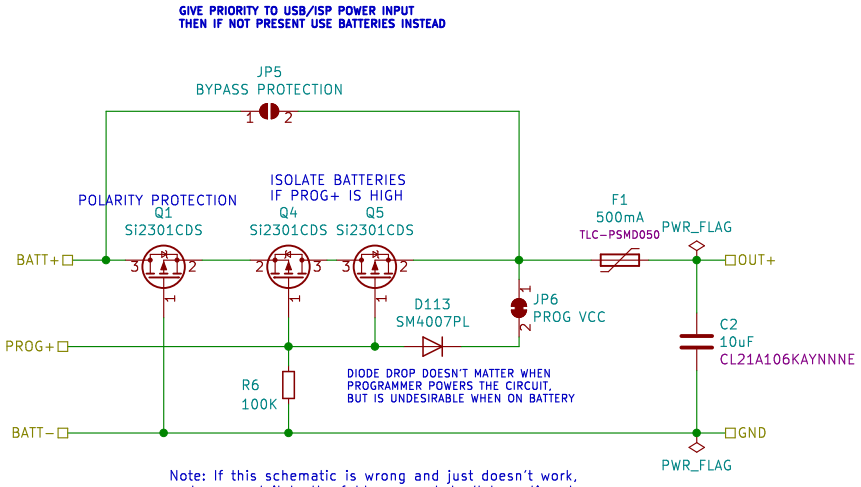
Sheet: /TM1640/LedMatrix7x16/

File: LedMatrix7x16.sch

Title: Dynamic Xmas Gift Label

Size: A3	Date: 2019-12-04	**Rev: rev0**
KiCad E.D.A. kicad (5.1.4)-1		Id: 3/4

Power input & switching



Note: If this schematic is wrong and just doesn't work, and you sent it to the fabhouse and don't have time to run a new batch, you can remove the protection circuit by bridging JP5 and cutting JP6.

In that case, only the batteries will power the circuit, ever, and you need batteries connected even to program the MCU.

https://github.com/jwaeles/
Jordan Waeles

Sheet: /PowerInput/
File: PowerInput.sch

Title: Dynamic Xmas Gift Label

Size: A4	Date: 2019-12-04	**Rev: rev0**
KiCad E.D.A. kicad (5.1.4)-1		Id: 4/4