

Pufferface Interface Schematic

Sheet: Connections

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Sheet: LEDsAlarm

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File: Pufferfish-Interface-2.sch

Title: Pufferface Interface Schematic

Size: A4 Date: 2020-07-09

KiCad E.D.A. kicad (5.1.6-0-10_14)

Rev: 2

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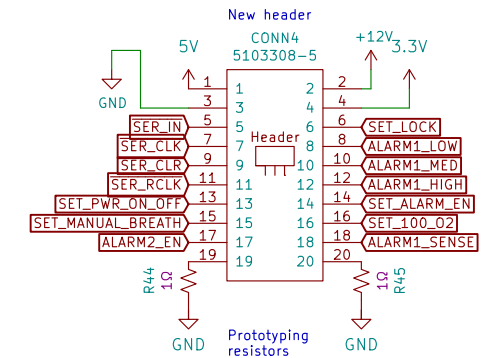
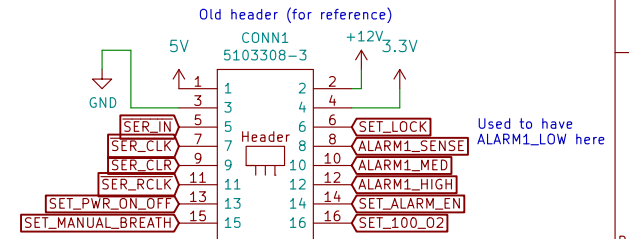
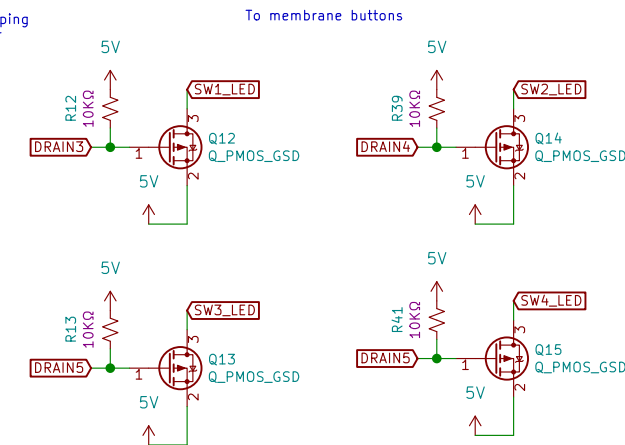
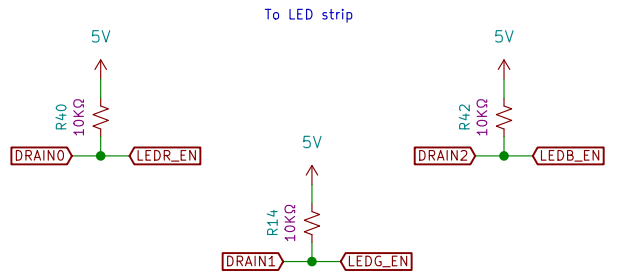
Connections

I/O signals

To Control Board

Serial Control

Note: 5V device, open drain outputs



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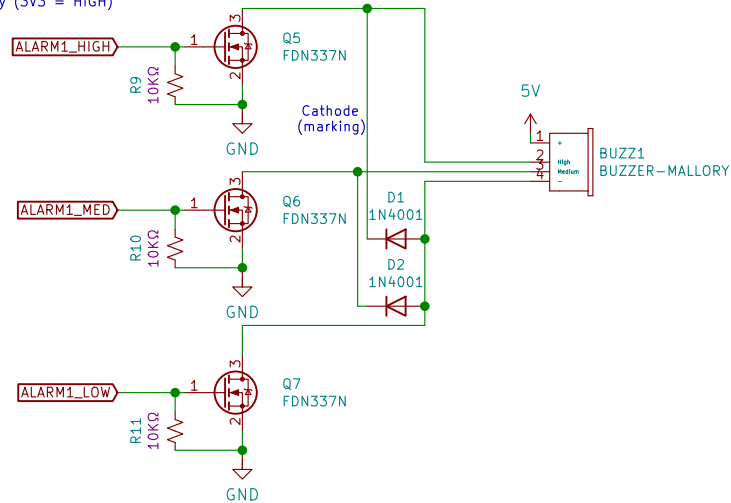
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Alarms

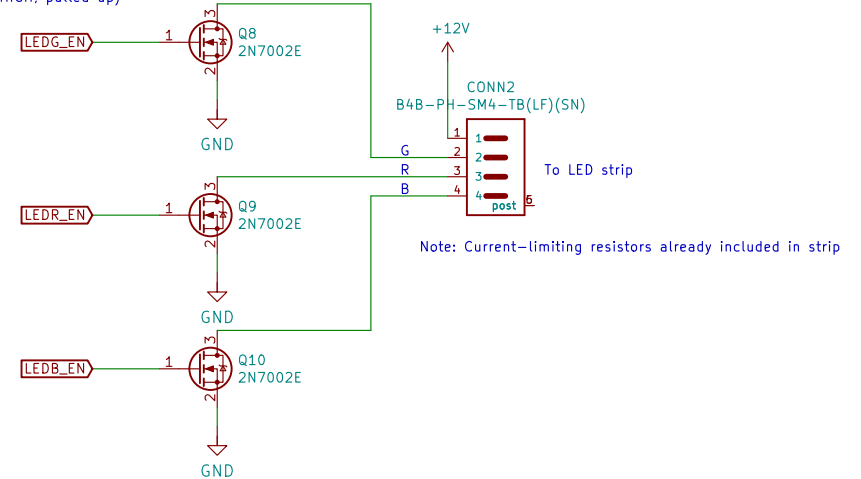
Regulatory Medical Alarm

Driven by MCU directly (3V3 = HIGH)

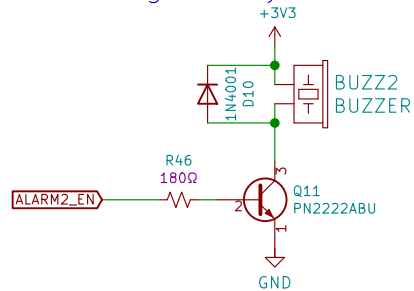


LEDs

Driven by barrel shifter
(5V = HIGH, pulled up)



System Non-Regulatory Alarm – Control Board



Click confirmation speaker – RPi

Sheet: /LEDsAlarm/
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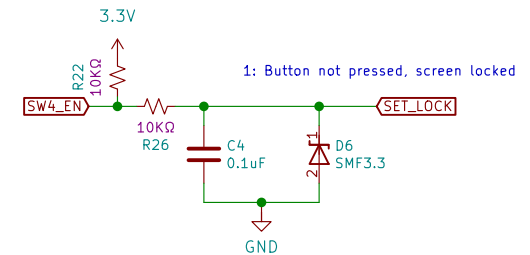
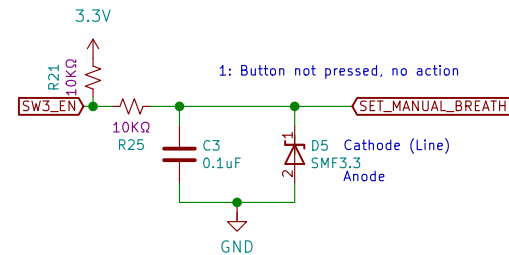
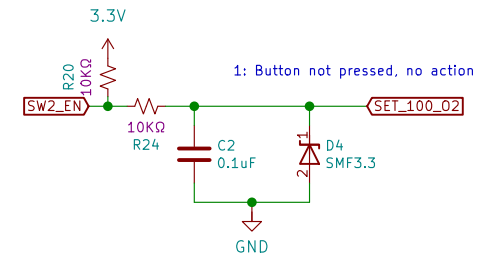
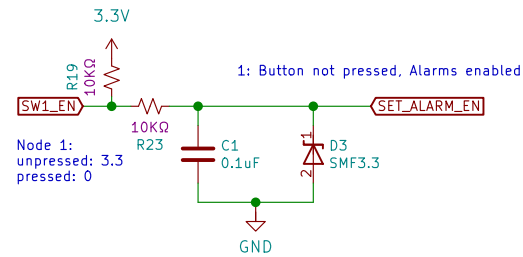
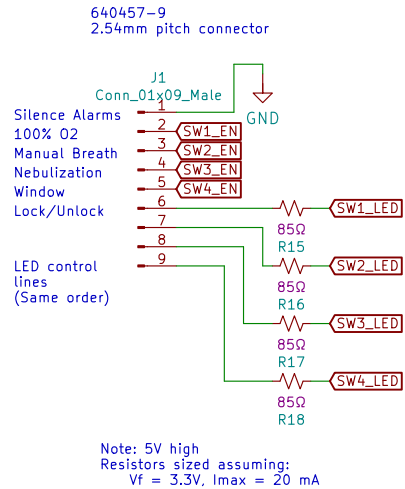
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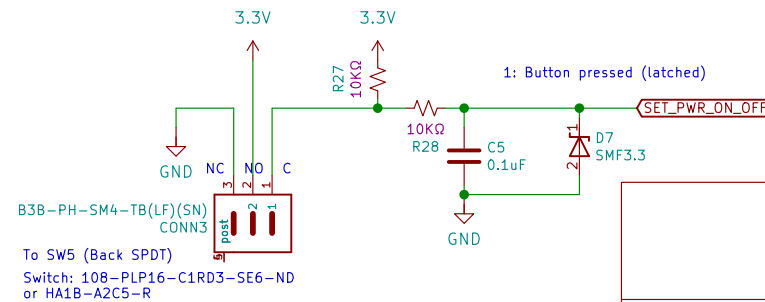
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Switches

Front Membrane Switches



Back Push Button



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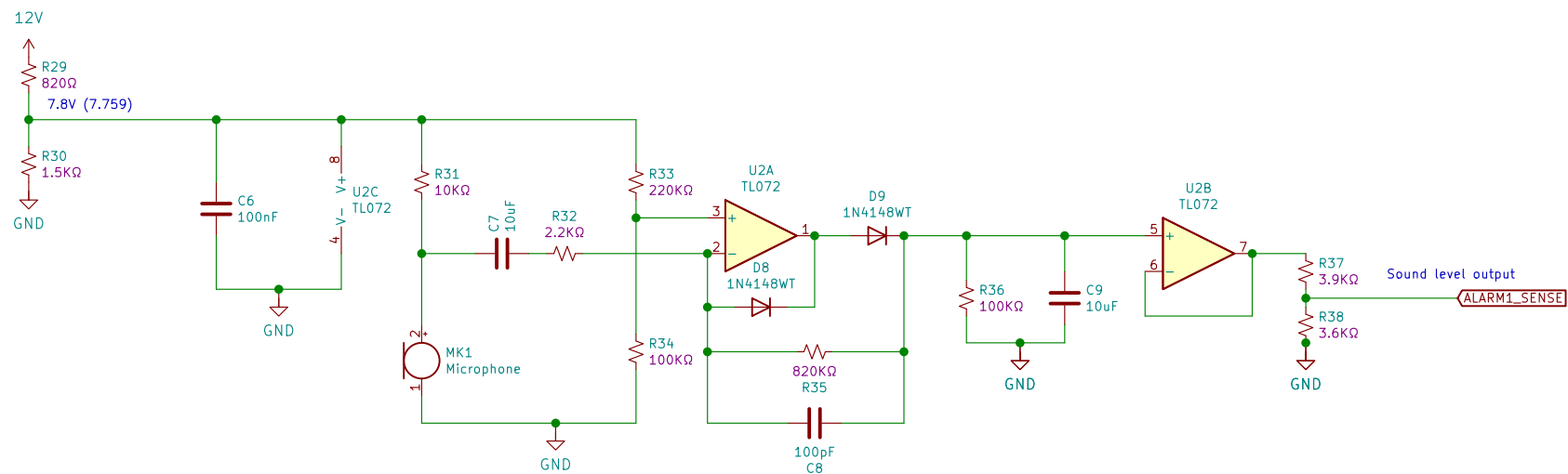
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Alarm Detector
Microphone



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