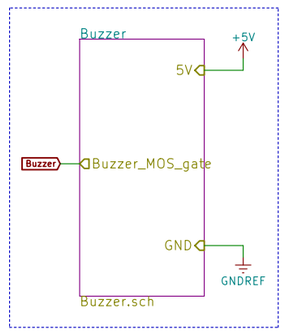

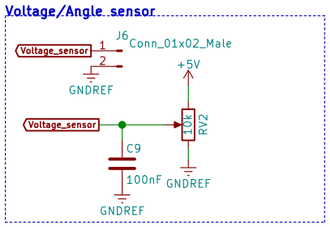

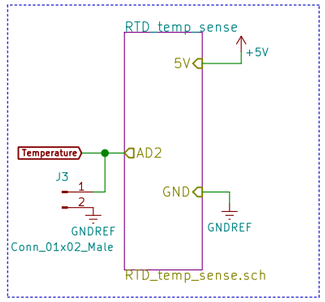

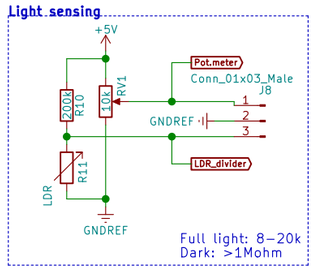

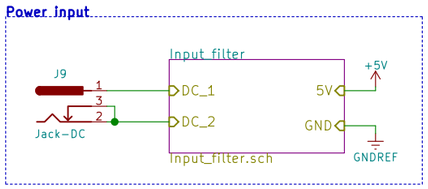

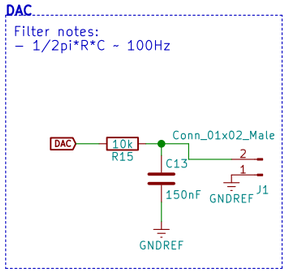

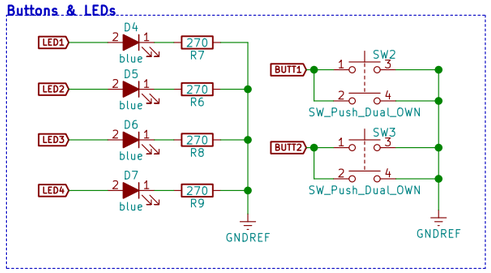

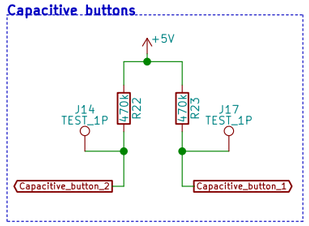

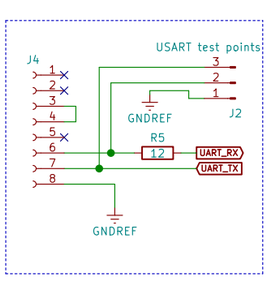

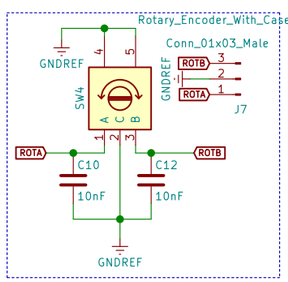

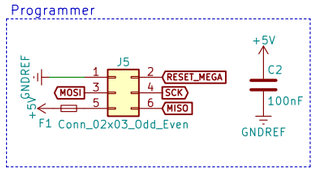

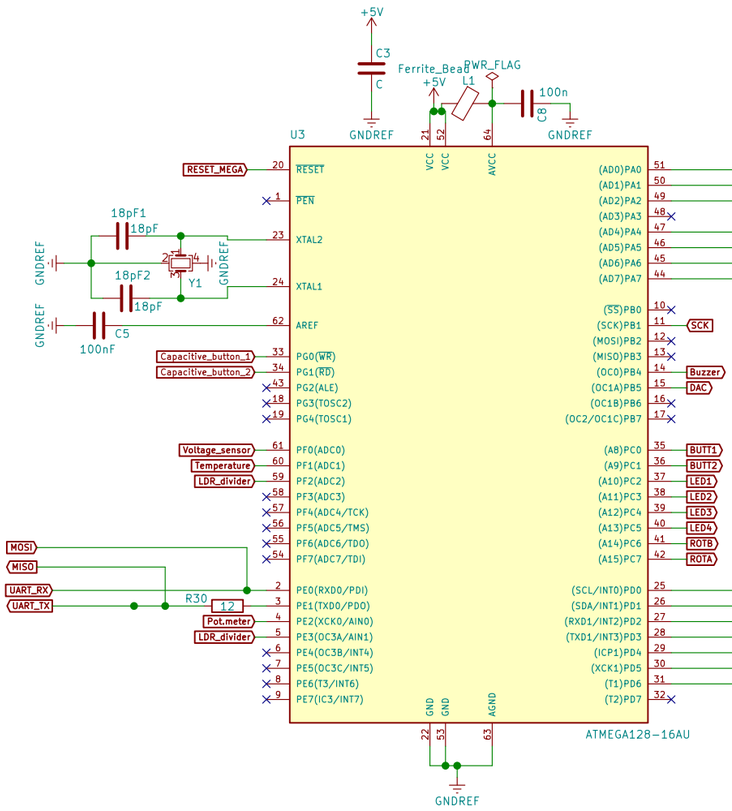

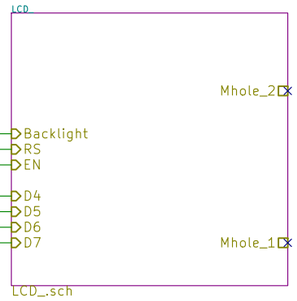

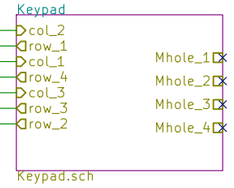

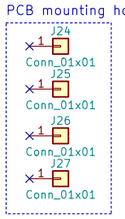

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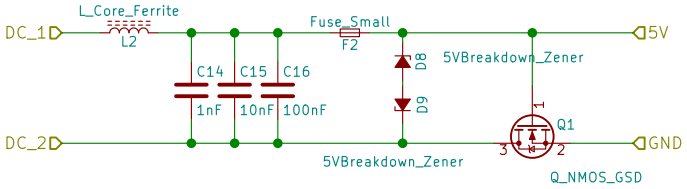
Title: AVR Development board

Size: A3	Date: 2020-09-06	Rev:
KiCad E.D.A. kicad 4.0.7-e2-637661ubuntu18.04.1		Id: 1/6



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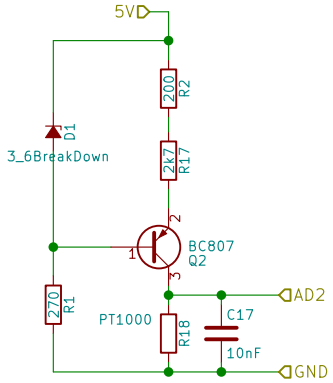


Design notes:
- load current will be approximately 1 mA
- 0,4K/mW self-heating -> it shall be compensated by SW

Calculations:
1) Zener
Vt = 5V
Iload = 1mA
Rmaxload = 1300 (at about 78 °C according to datasheet)

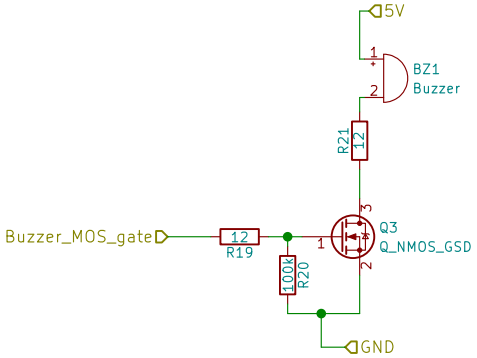
Rmaxload = (Vt - Vz)/Iload

Vz = Vt - Rmaxload*Iload = 3,7 (available is 3,6V - close enough)

2) Zener resistor
Vz = 3,6V
Iz = 5mA

Rz = (Vt - Vz)/Iz = 280 ohm (availabla is 270 - close enough)

Sheet: /RTD_temp_sense/		
File: RTD_temp_sense.sch		
Title:		
Size: A4	Date: 2020-07-18	**Rev:**
KiCad E.D.A. kicad 4.0.7-e2-637661ubuntu18.04.1		Id: 3/6



Sheet: /Buzzer/		
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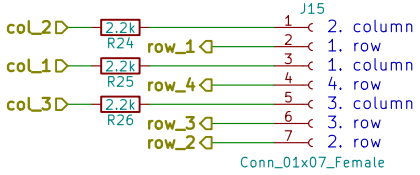
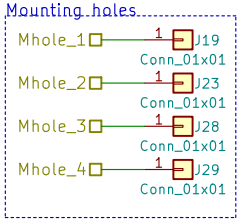
Title:		
Size: A4	Date: 2020-07-18	**Rev:**
KiCad E.D.A. kicad 4.0.7-e2-637661ubuntu18.04.1		Id: 4/6

Devices picture is good. The leftmost pin is number 1 and the rightmost is number 7

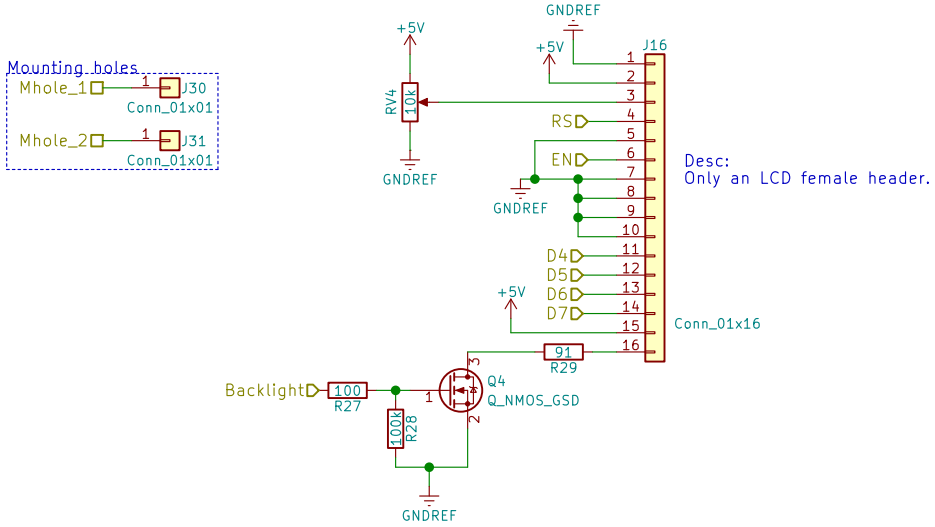




Design Notes:
- spacers
  - M2, 10mm
- screws
  - M2, 6mm

Sheet: /Keypad/		
File: Keypad.sch		
Title:		
Size: A4	Date: 2020-07-18	**Rev:**
KiCad E.D.A. kicad 4.0.7-e2-637661ubuntu18.04.1		Id: 5/6

Design Notes:
–spacers:
– M3, 11mm
– screws:
– M3, 4mm



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