

## Arduino UNO

mcu\_modul.sch

### Multi-Function Shield

led\_7segment.sch

## LCD keypad Shield

LCD\_tlacitka.sch

### Pins position

pcb\_outline\_drawings.sch

Brno University of Technology, Czechia

Sheet: /

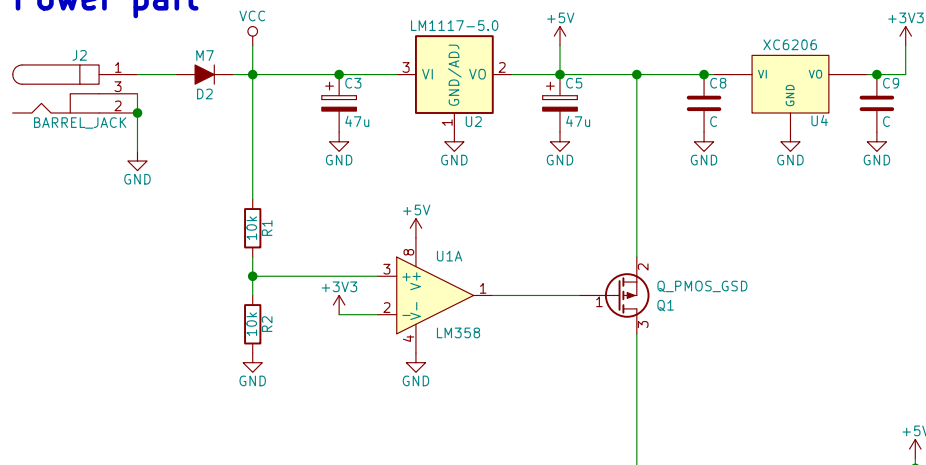
File: arduino\_shield.sch

**Title:** *Arduino boards*

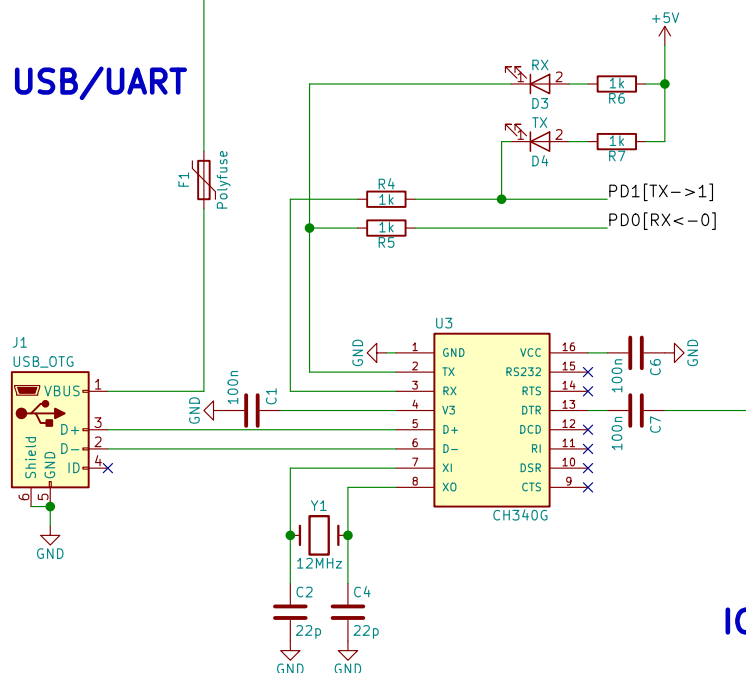
Size: A4	Date: 2018-10-03
KiCad E.D.A. kicad 4.0.2+dfsg1-stable	

Rev: v1.1

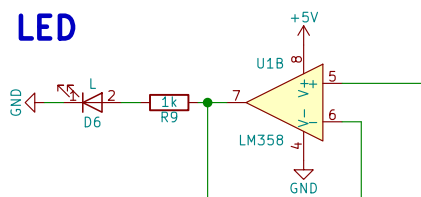
## Power part



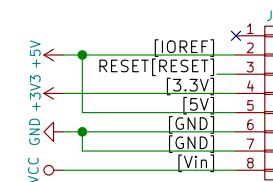
## USB/UART



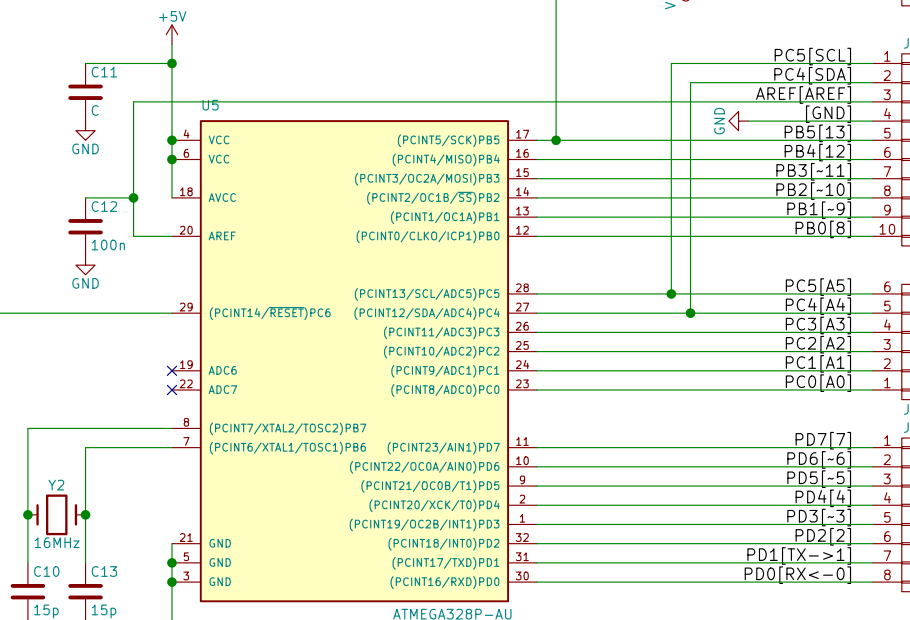
## LED



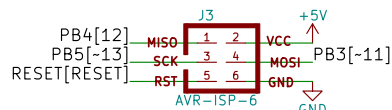
## Pin headers



## MCU



## ICSP connector



Pin name legend: MCU PIN [ARDUINO PCB PIN NAME]

Brno University of Technology, Czechia

Sheet: /Arduino UNO/

File: mcu\_modul.sch

Title: Arduino UNO

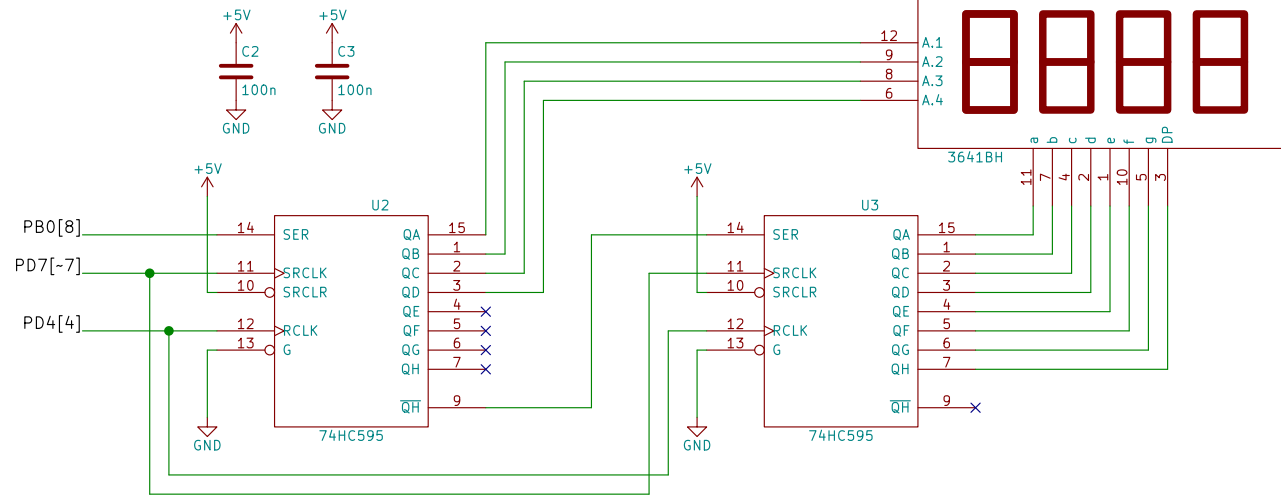
Size: A4 Date: 2018-10-23

KiCad E.D.A. kicad 4.0.2+dfsg1-stable

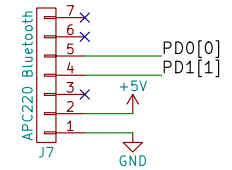
Rev: v1.2

Id: 2/5

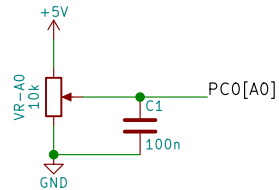
## Seven-segment display



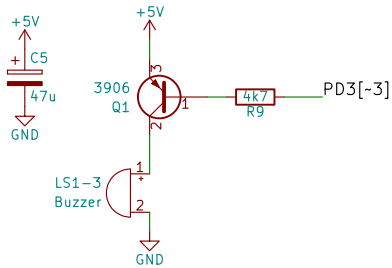
## External module pin header



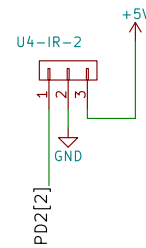
## Multi-turn trimmer



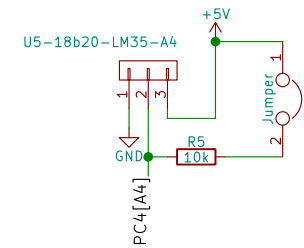
## Buzzer



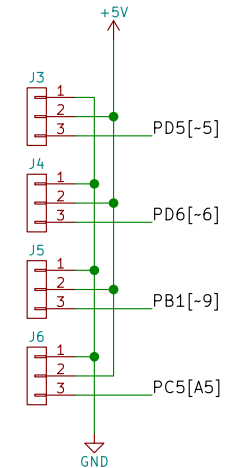
## Digital sensor



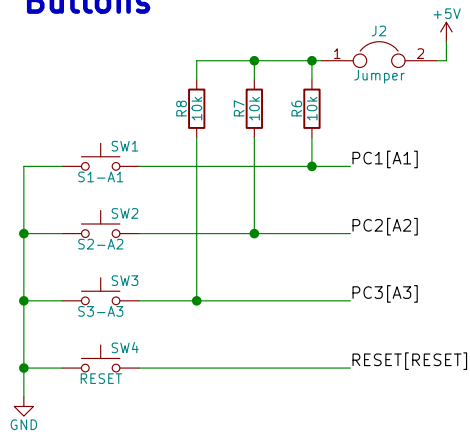
## Analog sensor



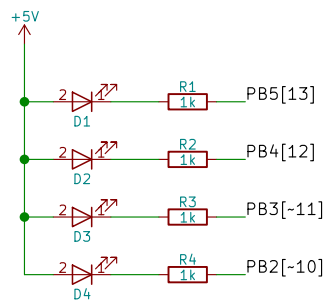
## Headers



## Buttons



## LEDs



Pin name legend: MCU PIN [ARDUINO PCB PIN NAME]

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Sheet: /Multi-Function Shield/

File: led\_7segment\_.sch

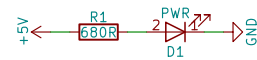
**Title: Multi-Function Shield**

Size: A4 Date: 2018-10-03

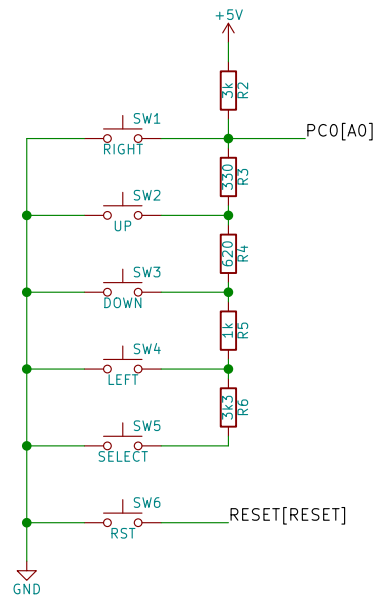
KiCad E.D.A. kicad 4.0.2+dfsg1-stable

**Rev: v1.1**

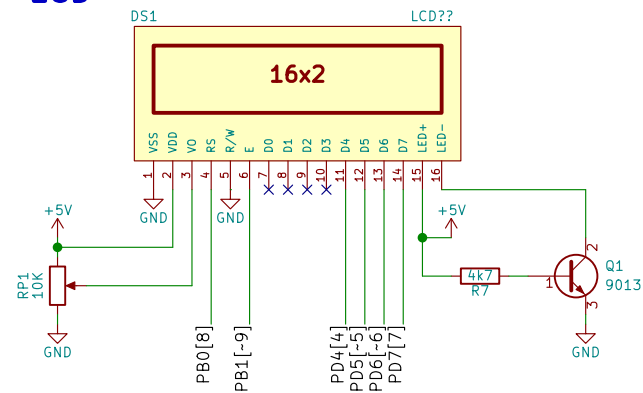
Id: 3/5



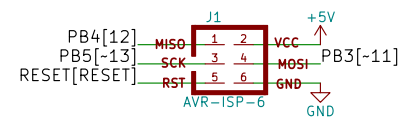
## Buttons



## LCD



## ICSP connector



Pin name legend: MCU PIN [ARDUINO PCB PIN NAME]

**Brno University of Technology, Czechia**

Sheet: /LCD keypad Shield/

File: LCD\_tlacitka.sch

**Title: LCD keypad Shield**

Size: A4 Date: 2018-10-24

KiCad E.D.A. kicad 4.0.2+dfsg1-stable

**Rev: v1.2**

Id: 4/5

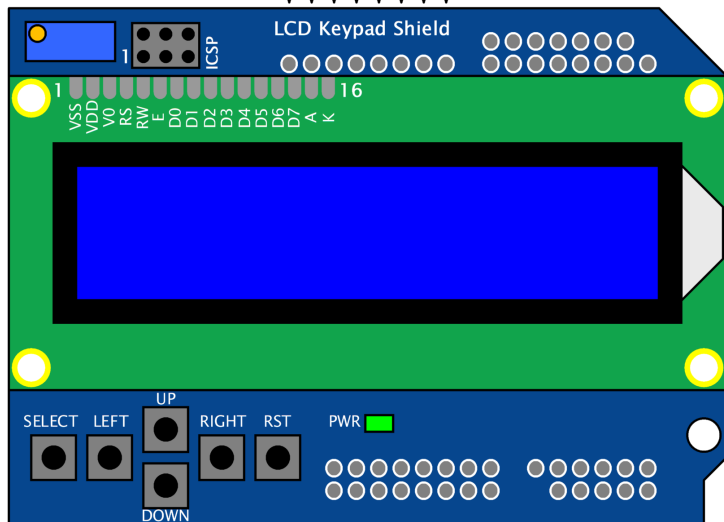
## Arduino UNO

[IOREF]  
RESET[RESET]  
[3.3V]  
[5V]  
[GND]  
[GND]  
[Vin]

PC0[A0]  
PC1[A1]  
PC2[A2]  
PC3[A3]  
PC4[A4]  
PC5[A5]

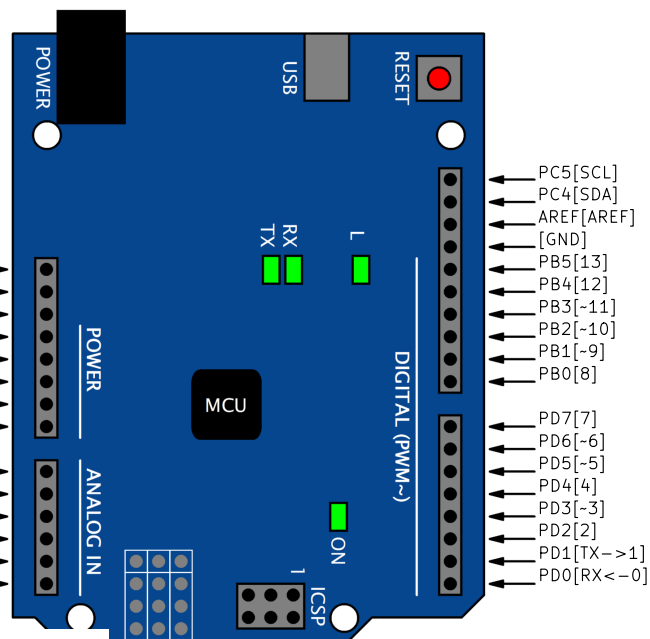
AREF[AREF]  
[GND]  
PB5[13]  
PB4[12]  
PB3[-11]  
PB2[-10]  
PB1[-9]  
PB0[8]

## LCD keypad Shield



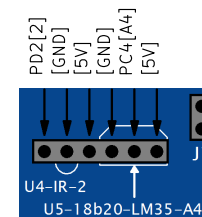
[IOREF]  
RESET[RESET]  
[3.3V]  
[5V]  
[GND]  
[GND]  
[Vin]  
PC0[A0]  
PC1[A1]  
PC2[A2]  
PC3[A3]  
PC4[A4]  
PC5[A5]

PB5[13]  
PB4[12]  
PB3[-11]  
PB2[-10]  
PB1[-9]  
PB0[8]  
PD7[7]  
PD6[-6]  
PD5[-5]  
PD4[4]  
PD3[-3]  
PD2[2]  
PD1[TX->1]  
PD0[RX<-0]

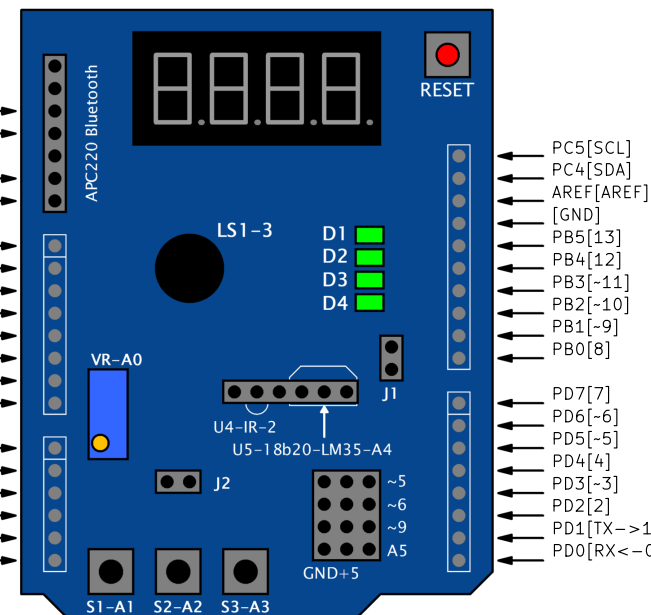


PC5[SCL]  
PC4[SDA]  
AREF[AREF]  
[GND]  
PB5[13]  
PB4[12]  
PB3[-11]  
PB2[-10]  
PB1[-9]  
PB0[8]  
PD7[7]  
PD6[-6]  
PD5[-5]  
PD4[4]  
PD3[-3]  
PD2[2]  
PD1[TX->1]  
PD0[RX<-0]

## Multi-Function Shield



PD0[0]  
PD1[1]  
[5V]  
[GND]  
[IOREF]  
RESET[RESET]  
[3.3V]  
[5V]  
[GND]  
[GND]  
[Vin]  
PC0[A0]  
PC1[A1]  
PC2[A2]  
PC3[A3]  
PC4[A4]  
PC5[A5]



PC5[SCL]  
PC4[SDA]  
AREF[AREF]  
[GND]  
PB5[13]  
PB4[12]  
PB3[-11]  
PB2[-10]  
PB1[-9]  
PB0[8]  
PD7[7]  
PD6[-6]  
PD5[-5]  
PD4[4]  
PD3[-3]  
PD2[2]  
PD1[TX->1]  
PD0[RX<-0]

Pin name legend: MCU PIN [ARDUINO PCB PIN NAME]

Brno University of Technology, Czechia

Sheet: /Pins position/  
File: pcb\_outline\_drawings.sch

Title: PCB view - Pin names

Size: A4 Date: 2018-10-23  
KiCad E.D.A. kicad 4.0.2+dfsg1-stable

Rev: v1.2  
Id: 5/5