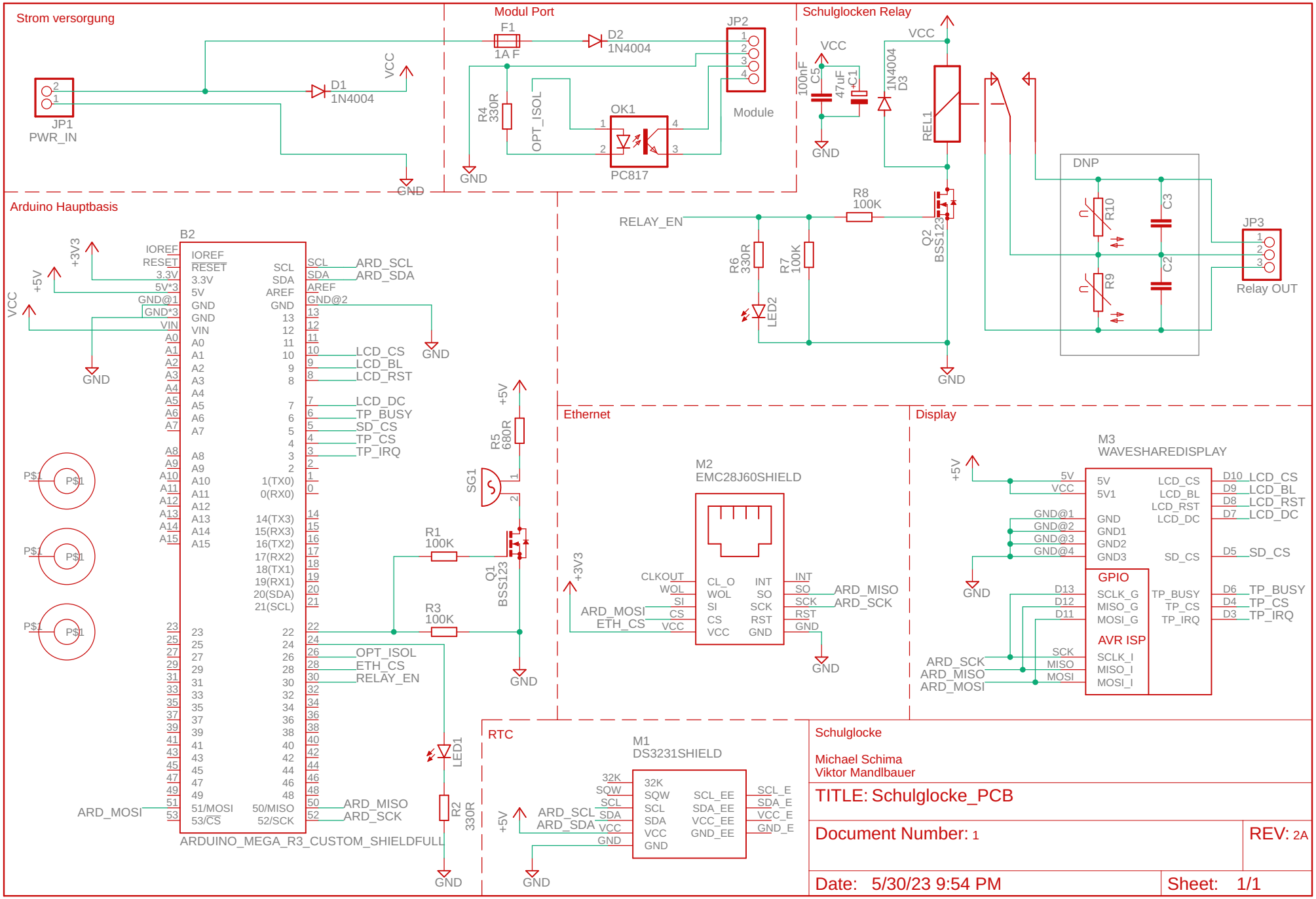
Strom versorgung
JP1
PWR_IN
D1
1N4004
VCC
GND
Modul Port
F1
1A F
D2
1N4004
JP2
Module
R4
330R
OPT_ISOL
OK1
PC817
Schulglocken Relay
VCC
100nF
C5
47uF
C1
1N4004
D3
REL1
DNP
R10
R9
C3
C2
JP3
Relay OUT
RELAY_EN
R8
100K
Q2
BSS123
R6
330R
R7
100K
LED2
Arduino Hauptbasis
B2
+3V3
+5V
IOREF
RESET
3.3V
5V*3
GND@1
GND*3
VIN
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
SCL
SDA
AREF
GND@2
ARD_SCL
ARD_SDA
LCD_CS
LCD_BL
LCD_RST
LCD_DC
TP_BUSY
SD_CS
TP_CS
TP_IRQ
1(TX0)
0(RX0)
14(TX3)
15(RX3)
16(TX2)
17(RX2)
18(TX1)
19(RX1)
20(SDA)
21(SCL)
OPT_ISOL
ETH_CS
RELAY_EN
ARD_MISO
ARD_SCK
ARD_MOSI
51/MOSI
53/CS
50/MISO
52/SCK
ARDUINO_MEGA_R3_CUSTOM_SHIELDFULL
P$1
R5
680R
SG1
R1
100K
R3
100K
Q1
BSS123
LED1
R2
330R
Ethernet
M2
EMC28J60SHIELD
CLKOUT
WOL
SI
CS
VCC
CL_O
INT
SO
SCK
RST
GND
ARD_MISO
ARD_SCK
ARD_MOSI
ETH_CS
Display
M3
WAVESHAREDISPLAY
5V
5V1
GND
GND1
GND2
GND3
GND@1
GND@2
GND@3
GND@4
LCD_CS
LCD_BL
LCD_RST
LCD_DC
SD_CS
GPIO
SCLK_G
MISO_G
MOSI_G
TP_BUSY
TP_CS
TP_IRQ
AVR ISP
SCLK_I
MISO_I
MOSI_I
D10
D9
D8
D7
D5
D6
D4
D3
D13
D12
D11
SCK
MISO
MOSI
RTC
M1
DS3231SHIELD
32K
SQW
SCL
SDA
VCC
GND
SCL_EE
SDA_EE
VCC_EE
GND_EE
SCL_E
SDA_E
VCC_E
GND_E
Schulglocke
Michael Schima
Viktor Mandlbauer
TITLE: Schulglocke_PCB
Document Number: 1
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Sheet: 1/1