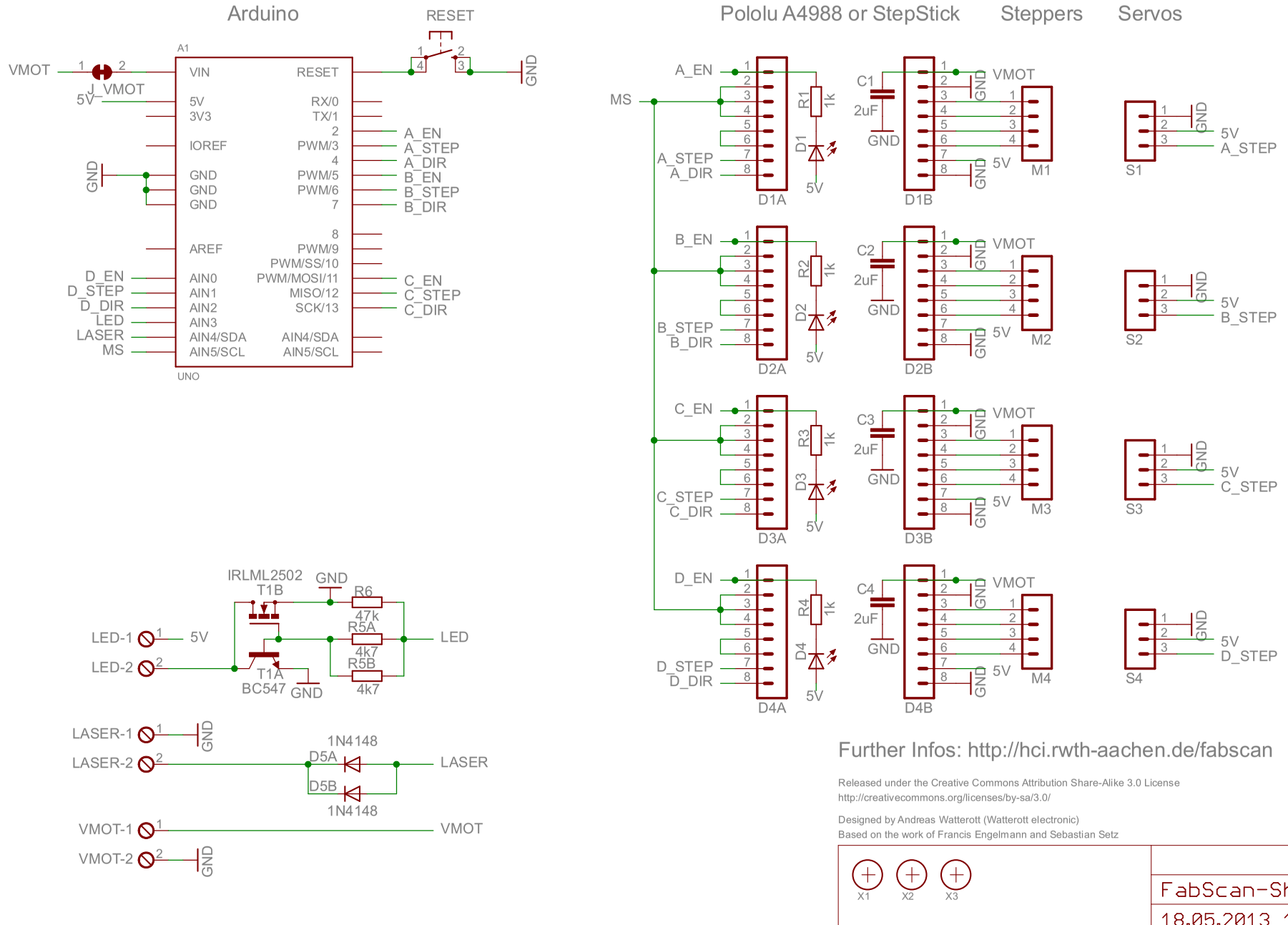
Arduino
RESET
Pololu A4988 or StepStick
Steppers
Servos
A1
VMOT
J_VMOT
5V
GND
VIN
5V
3V3
IOREF
GND
GND
GND
AREF
AIN0
AIN1
AIN2
AIN3
AIN4/SDA
AIN5/SCL
RESET
RX/0
TX/1
2
PWM/3
4
PWM/5
PWM/6
7
8
PWM/9
PWM/SS/10
PWM/MOSI/11
MISO/12
SCK/13
AIN4/SDA
AIN5/SCL
UNO
D_EN
D_STEP
D_DIR
LED
LASER
MS
A_EN
A_STEP
A_DIR
B_EN
B_STEP
B_DIR
C_EN
C_STEP
C_DIR
A_EN
MS
A_STEP
A_DIR
B_EN
B_STEP
B_DIR
C_EN
C_STEP
C_DIR
D_EN
D_STEP
D_DIR
R1
R2
R3
R4
1k
D1
D2
D3
D4
5V
D1A
D2A
D3A
D4A
C1
C2
C3
C4
2uF
GND
VMOT
D1B
D2B
D3B
D4B
M1
M2
M3
M4
S1
S2
S3
S4
A_STEP
B_STEP
C_STEP
D_STEP
IRLML2502
T1B
T1A
BC547
R6
47k
R5A
4k7
R5B
LED-1
LED-2
LED
LASER-1
LASER-2
LASER
1N4148
D5A
D5B
VMOT-1
VMOT-2
Further Infos: http://hci.rwth-aachen.de/fabscan
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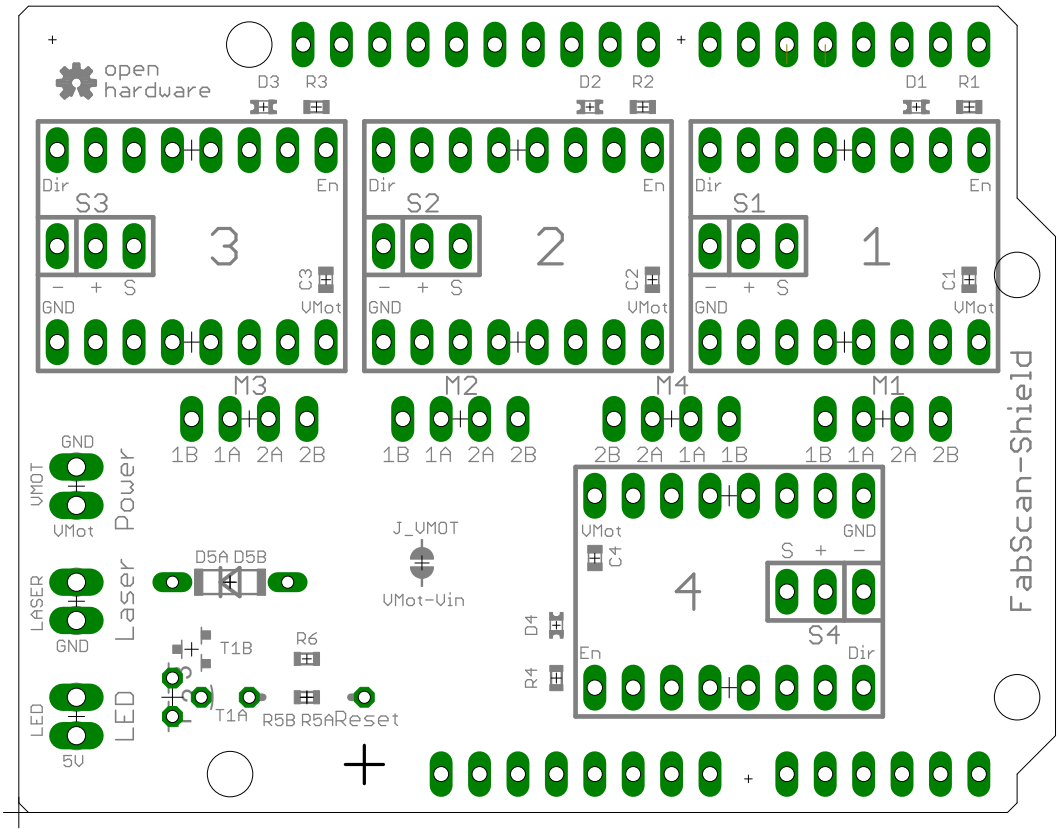
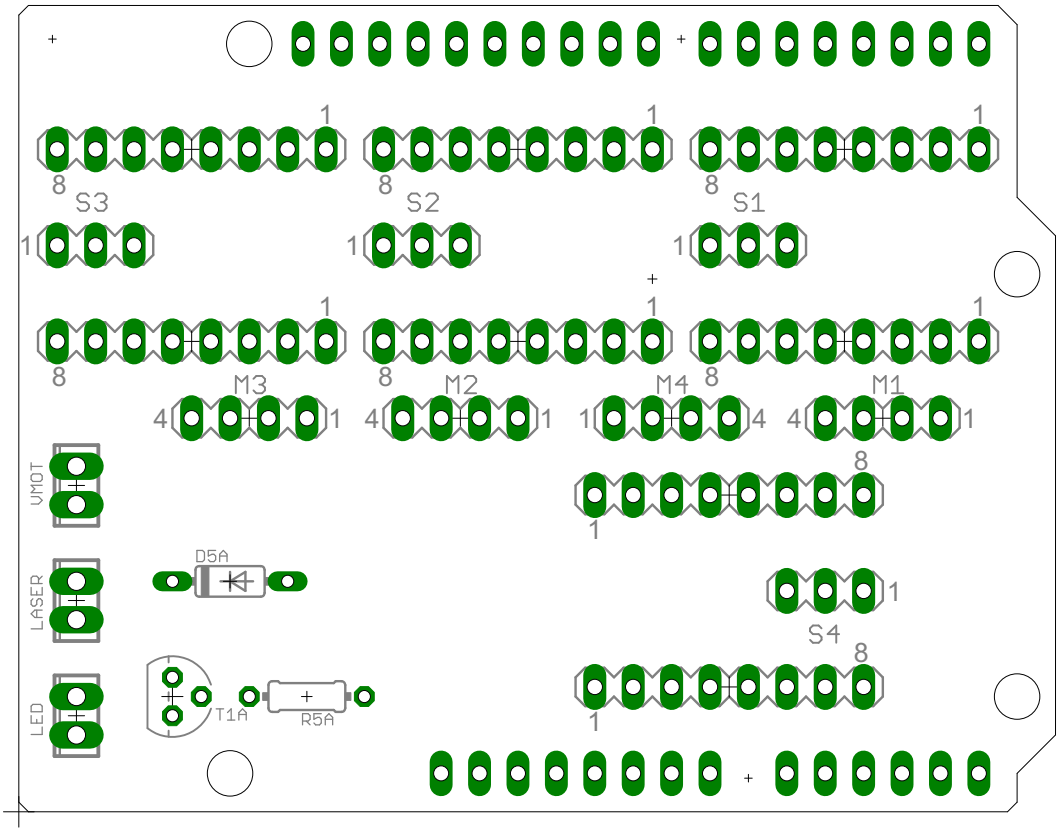
Designed by Andreas Watterott (Watterott electronic)
Based on the work of Francis Engelmann and Sebastian Setz
X1
X2
X3
FabScan-Shield_v11
18.05.2013 13:41:57
Sheet: 1/1


open
hardware
D3
R3
D2
R2
D1
R1
Dir
En
S3
3
S2
2
S1
1
GND
VMot
C3
C2
C1
M3
M2
M4
M1
1B 1A 2A 2B
2B 2A 1A 1B
VMOT
Power
LASER
Laser
LED
5V
D5A D5B
J_VMOT
VMot-Vin
T1B
T1A
R6
R5B R5A
Reset
D4
R4
C4
4
S4
FabScan-Shield

# THT Assembly