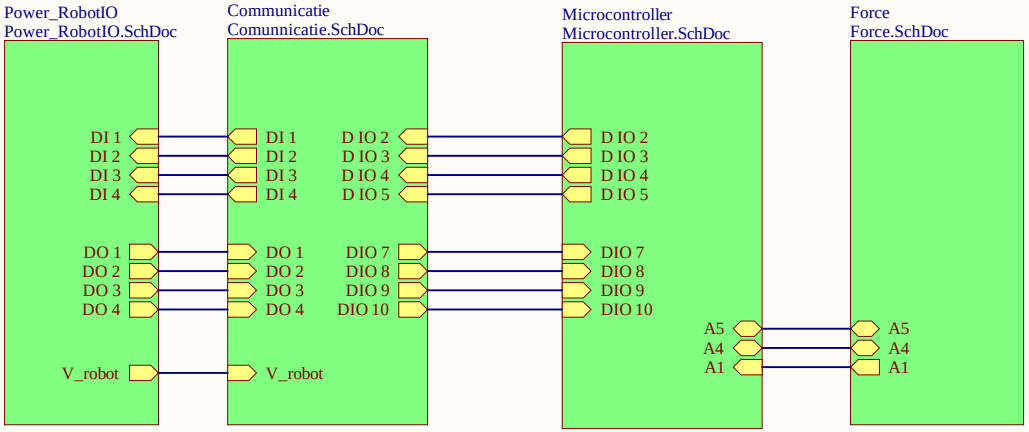
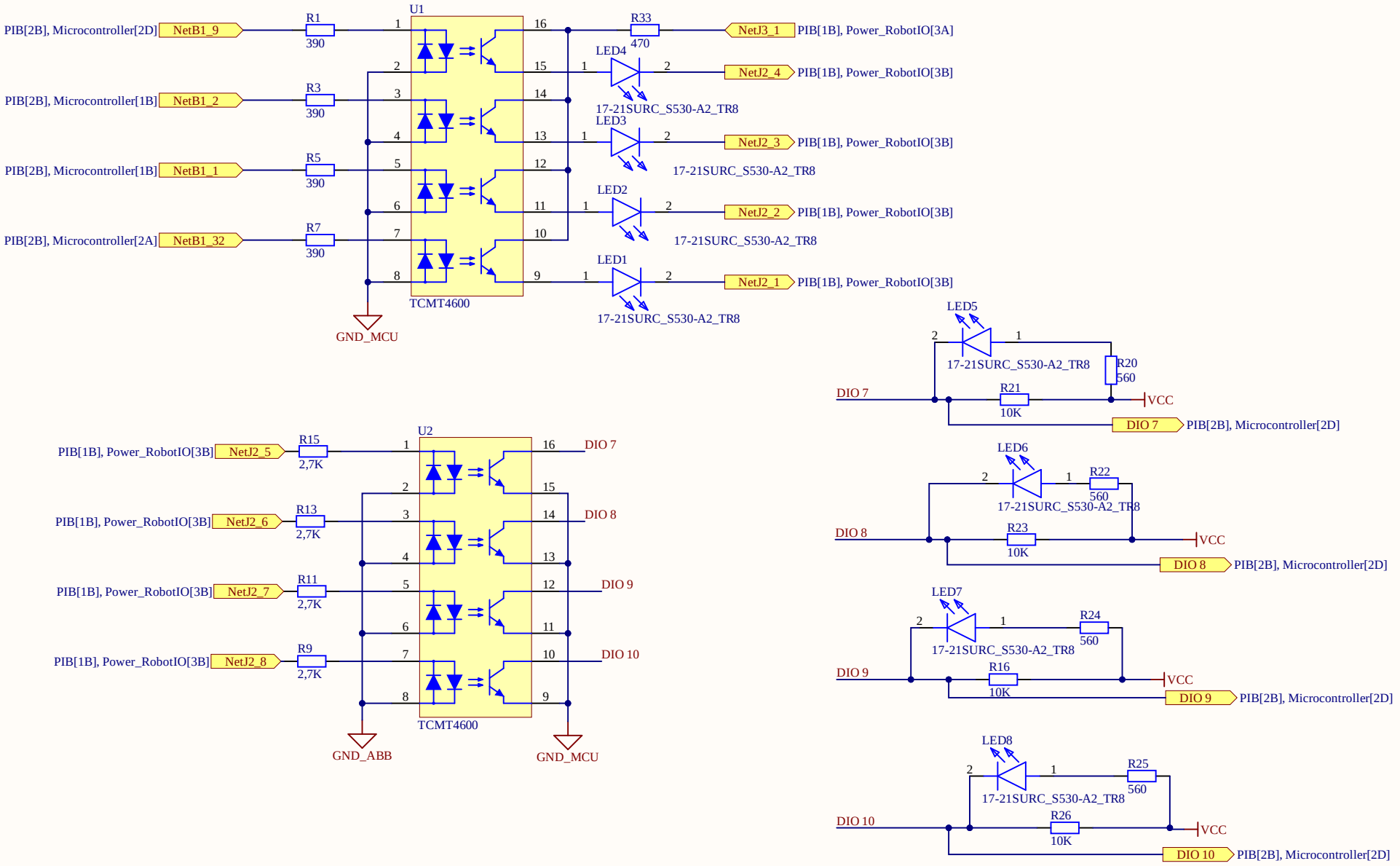
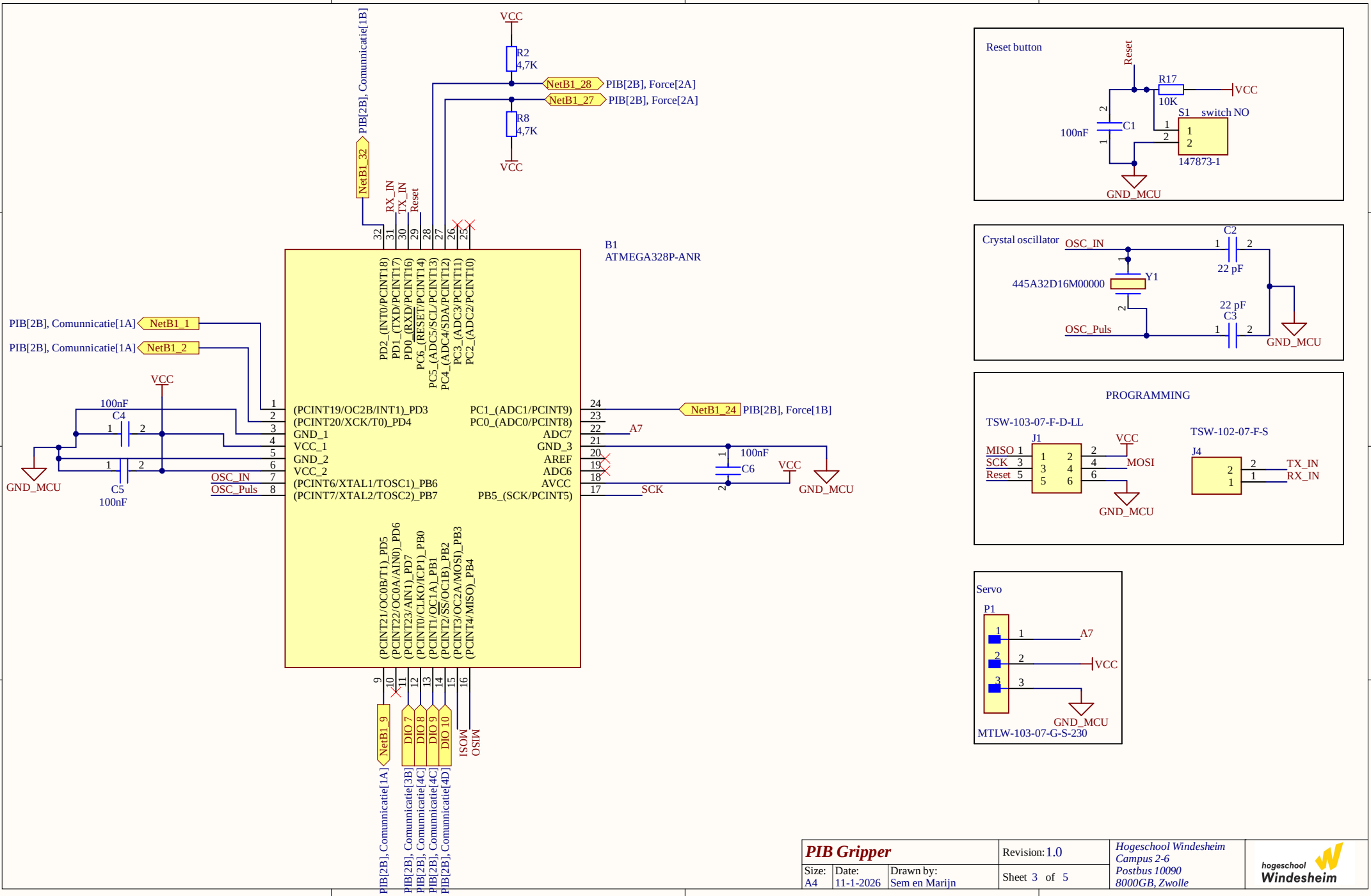
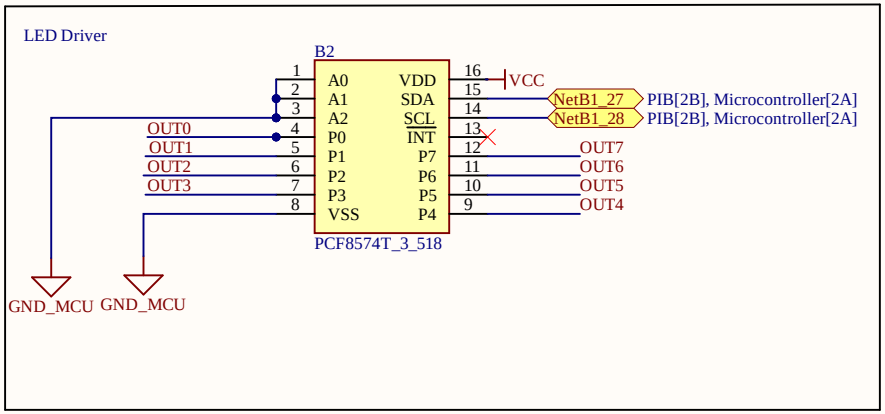


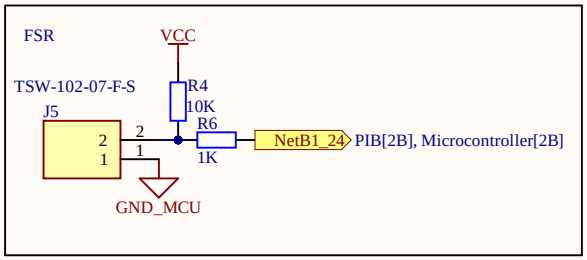
PIB Gripper			Revision: 1.0	*Hogeschool Windesheim* *Campus 2-6* *Postbus 10090* *8000GB, Zwolle*	hogeschool Windesheim
Size: A4	Date: 11-1-2026	Drawn by: Sem en Marijn	Sheet 1 of 5		

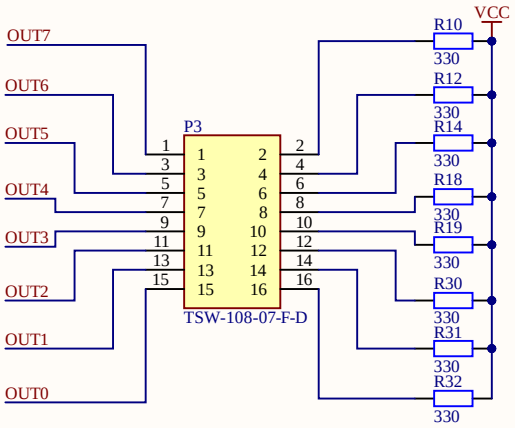


PIB Gripper			Revision: 1.0	*Hogeschool Windesheim* *Campus 2-6* *Postbus 10090* *8000GB, Zwolle*	hogeschool Windesheim
Size: A4	Date: 11-1-2026	Drawn by: Sem en Marijn	Sheet 2 of 5		

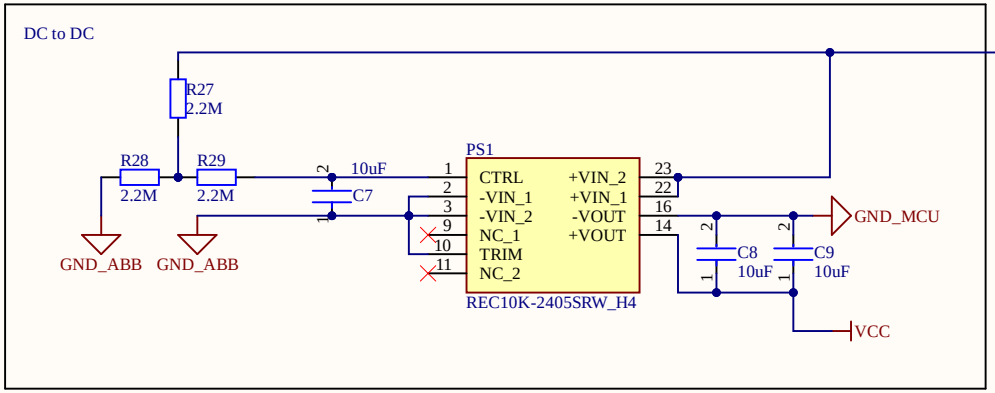

VCC
R2
4,7K
NetB1_28
PIB[2B], Force[2A]
NetB1_27
PIB[2B], Force[2A]
R8
4,7K
VCC
PIB[2B], Comunnicatie[1B]
NetB1_32
RX_IN
TX_IN
Reset
B1
ATMEGA328P-ANR
PD2_(INT0/PCINT18)
PD1_(TXD/PCINT17)
PD0_(RXD/PCINT16)
PC6_(RESET/PCINT14)
PC5_(ADC5/SCL/PCINT13)
PC4_(ADC4/SDA/PCINT12)
PC3_(ADC3/PCINT11)
PC2_(ADC2/PCINT10)
PIB[2B], Comunnicatie[1A]
NetB1_1
PIB[2B], Comunnicatie[1A]
NetB1_2
(PCINT19/OC2B/INT1)_PD3
(PCINT20/XCK/T0)_PD4
GND_1
VCC_1
GND_2
VCC_2
(PCINT6/XTAL1/TOSC1)_PB6
(PCINT7/XTAL2/TOSC2)_PB7
PC1_(ADC1/PCINT9)
PC0_(ADC0/PCINT8)
ADC7
GND_3
AREF
ADC6
AVCC
PB5_(SCK/PCINT5)
NetB1_24
PIB[2B], Force[1B]
A7
SCK
100nF
C6
VCC
GND_MCU
100nF
C4
VCC
GND_MCU
OSC_IN
OSC_Puls
C5
100nF
(PCINT21/OC0B/T1)_PD5
(PCINT22/OC0A/AIN0)_PD6
(PCINT23/AIN1)_PD7
(PCINT0/CLKO/ICP1)_PB0
(PCINT1/OC1A)_PB1
(PCINT2/SS/OC1B)_PB2
(PCINT3/OC2A/MOSI)_PB3
(PCINT4/MISO)_PB4
NetB1_9
DIO 7
DIO 8
DIO 9
DIO 10
MOSI
MISO
PIB[2B], Comunnicatie[1A]
PIB[2B], Comunnicatie[3B]
PIB[2B], Comunnicatie[4C]
PIB[2B], Comunnicatie[4C]
PIB[2B], Comunnicatie[4D]
Reset button
Reset
R17
10K
VCC
S1 switch NO
147873-1
100nF
C1
GND_MCU
Crystal oscillator
OSC_IN
C2
22 pF
Y1
445A32D16M00000
22 pF
C3
OSC_Puls
GND_MCU
PROGRAMMING
TSW-103-07-F-D-LL
J1
MISO
SCK
Reset
VCC
MOSI
GND_MCU
TSW-102-07-F-S
J4
TX_IN
RX_IN
Servo
P1
A7
VCC
GND_MCU
MTLW-103-07-G-S-230
PIB Gripper
Revision: 1.0
Size: A4
Date: 11-1-2026
Drawn by: Sem en Marijn
Sheet 3 of 5
Hogeschool Windesheim
Campus 2-6
Postbus 10090
8000GB, Zwolle
hogeschool Windesheim

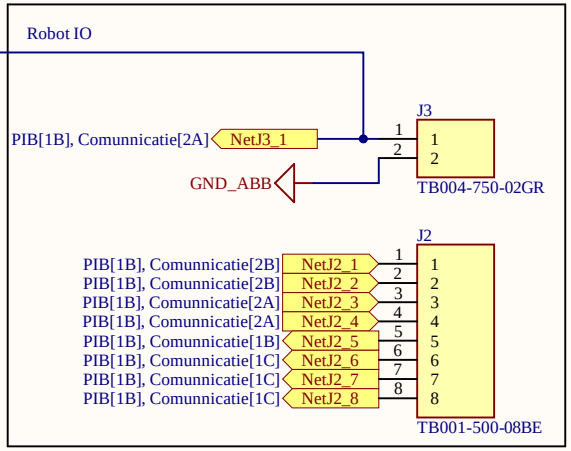






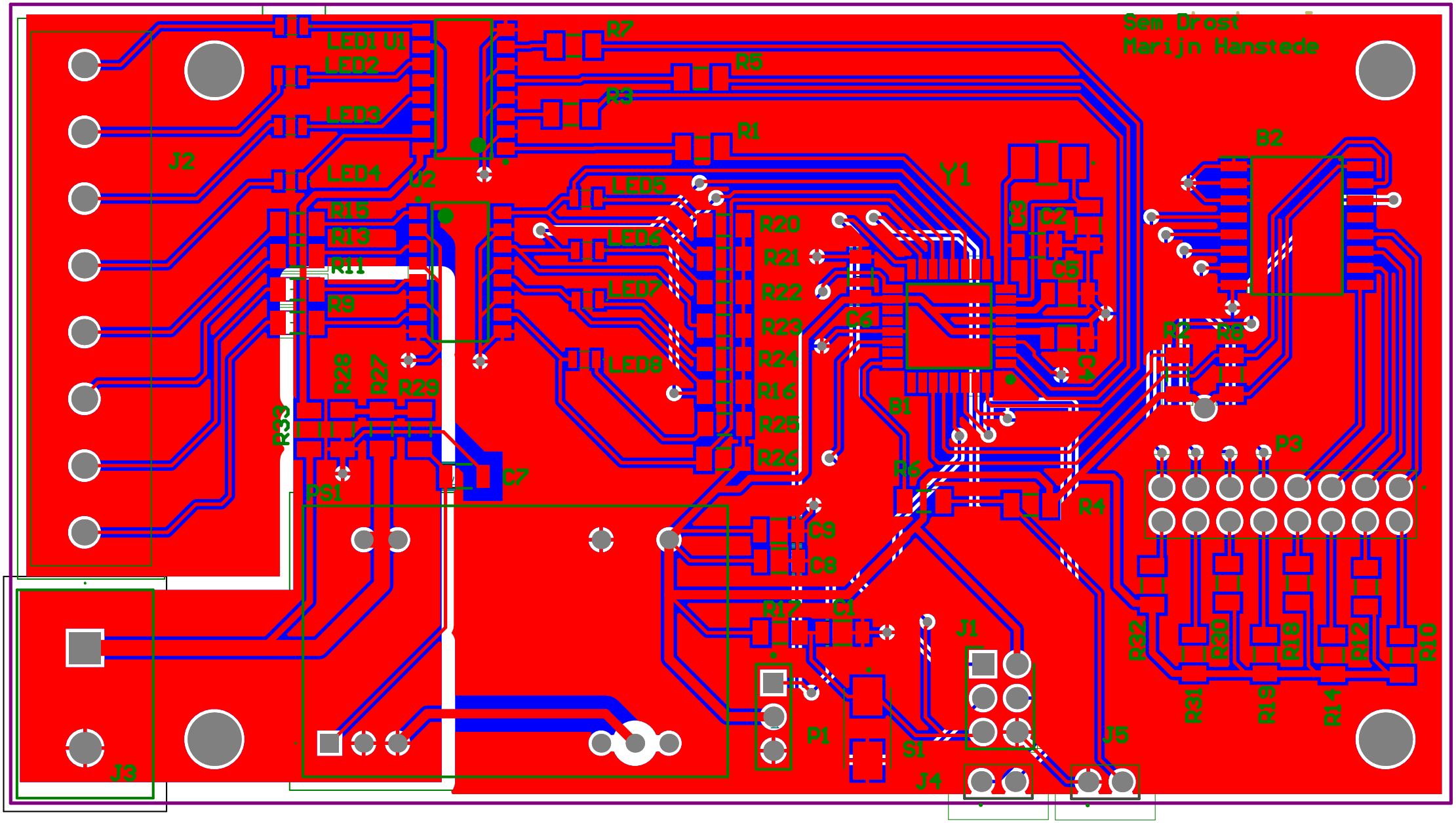
PIB Gripper			Revision: 1.0	*Hogeschool Windesheim* *Campus 2-6* *Postbus 10090* *8000GB, Zwolle*	hogeschool Windesheim
Size: A4	Date: 11-1-2026	Drawn by: Sem en Marijn	Sheet 4 of 5		





PIB Gripper			Revision: 1.0	*Hogeschool Windesheim* *Campus 2-6* *Postbus 10090* *8000GB, Zwolle*
Size: A4	Date: 11-1-2026	Drawn by: Sem en Marijn	Sheet 5 of 5	

hogeschool Windesheim


Sem Drost
Marijn Hanstede
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
R7
R5
R3
R1
R15
R13
R11
R9
R20
R21
R22
R23
R24
R16
R25
R26
R28
R27
R29
R33
R17
R6
R4
R2
R8
R32
R30
R18
R12
R10
R31
R19
R14
U2
Y1
C3
C2
C5
C6
C4
C7
C9
C8
C1
B1
B2
P3
P1
S1
J1
J2
J3
J4
J5
PS1

Board Stack Report