

A

B

C

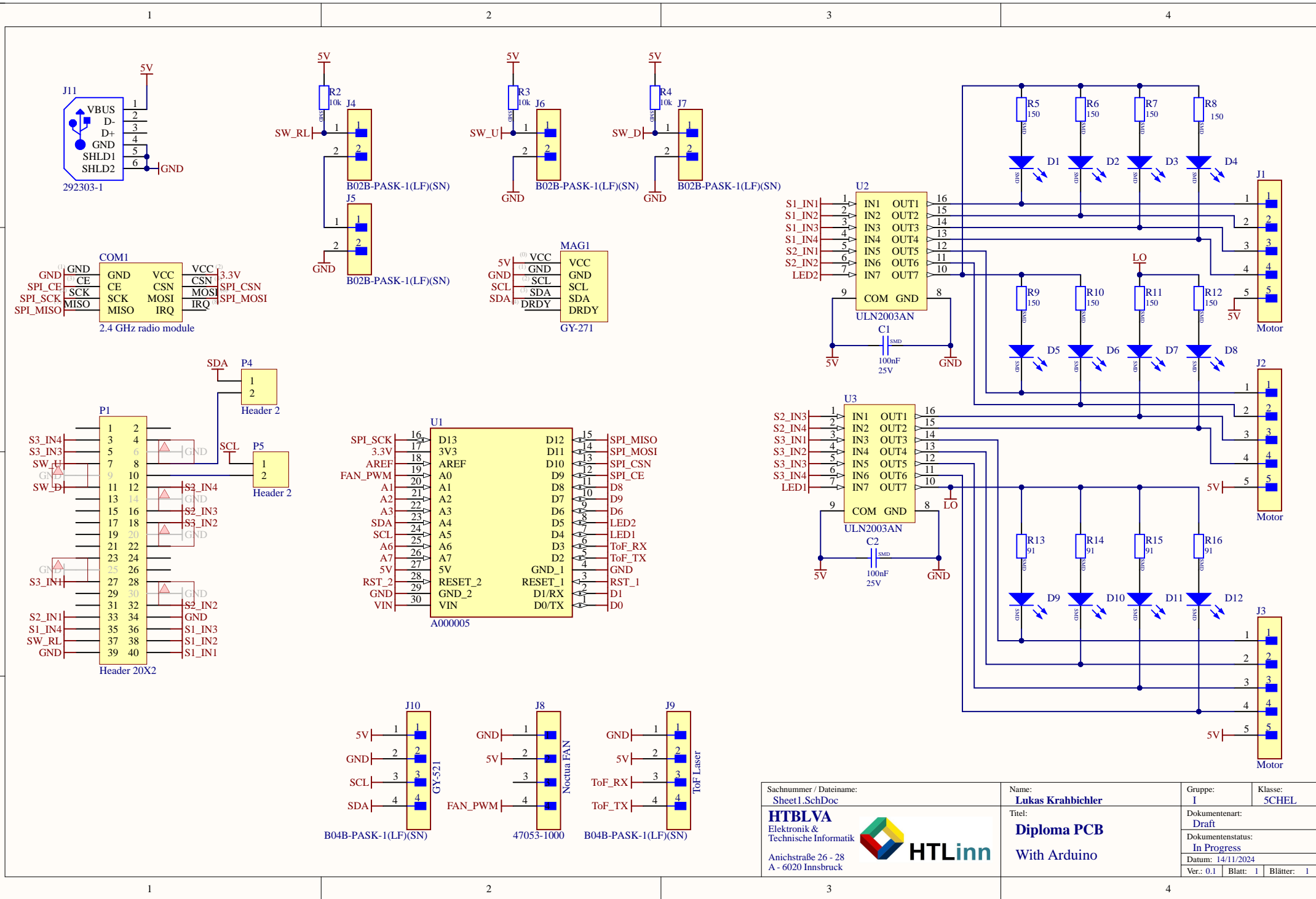
D

A

B

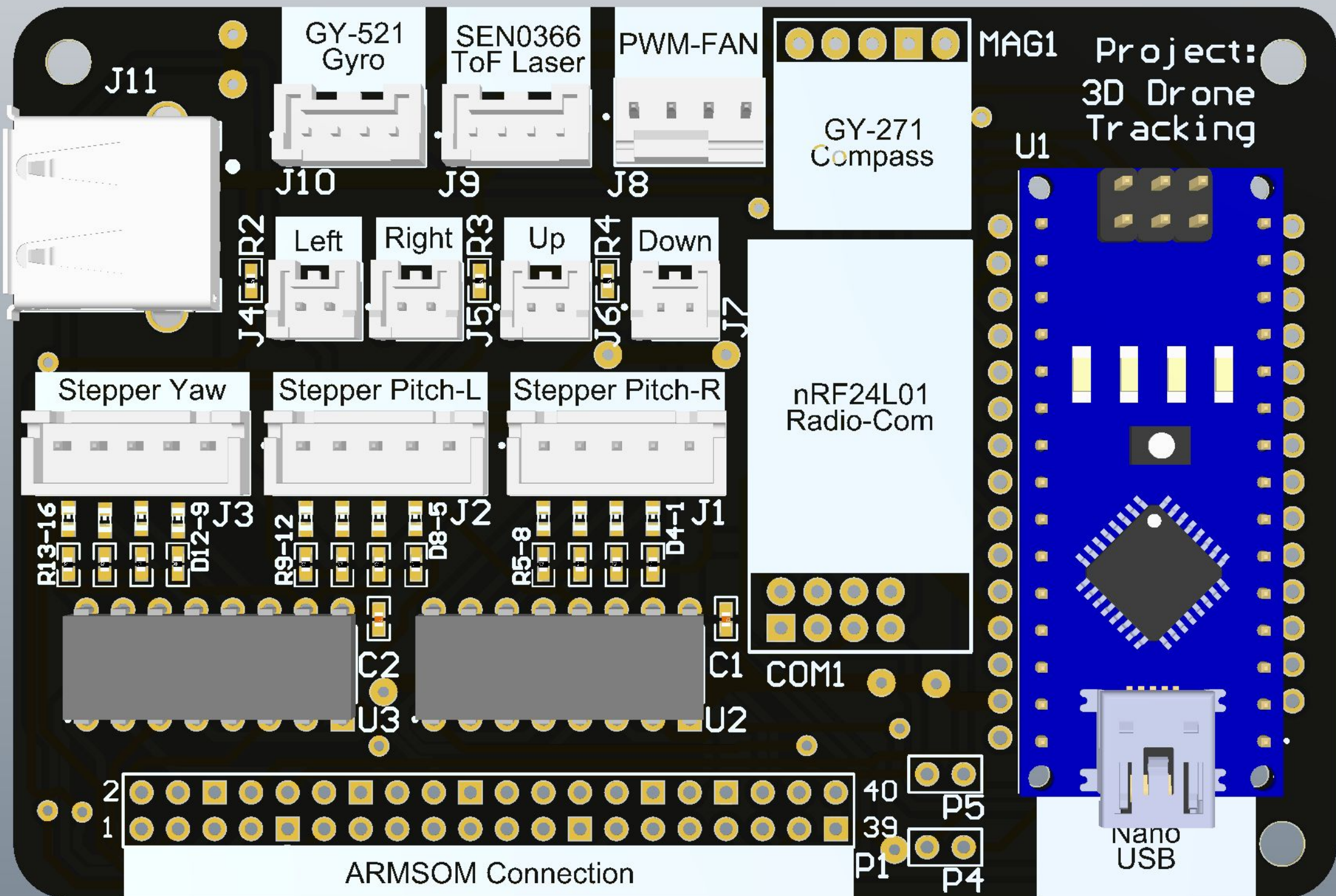
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D



Sachnummer / Dateiname: Sheet1.SchDoc		Name: Lukas Krabbichler		Gruppe: I	Klasse: SCHEL
HTBLVA Elektronik & Technische Informatik		Titel: Diploma PCB With Arduino		Dokumentenart: Draft	
Anichstraße 26 - 28 A - 6020 Innsbruck				Dokumentenstatus: In Progress	
				Datum: 14/11/2024	
				Ver.: 0.1	Blatt: 1 Blätter: 1





1

2

3

4

A

A

B

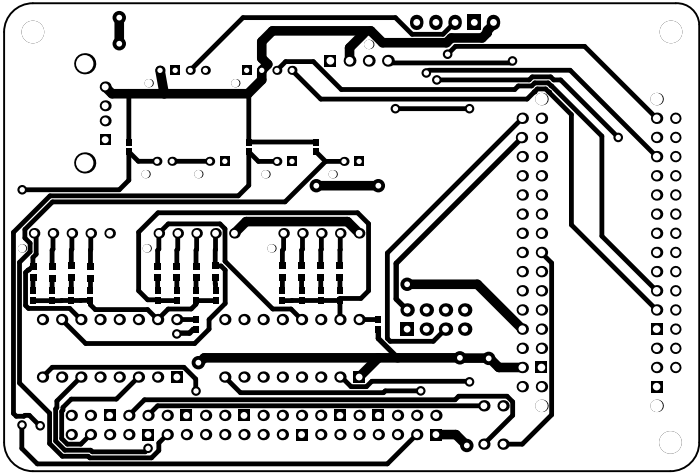
B

C

C

D

D



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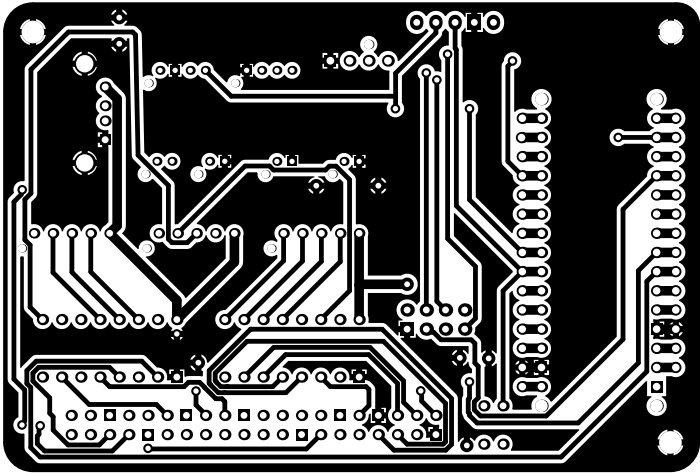
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NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: LAYOUT TOP
DATUM: 14/11/2024	REVISION: 0.1	MASZTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF
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2

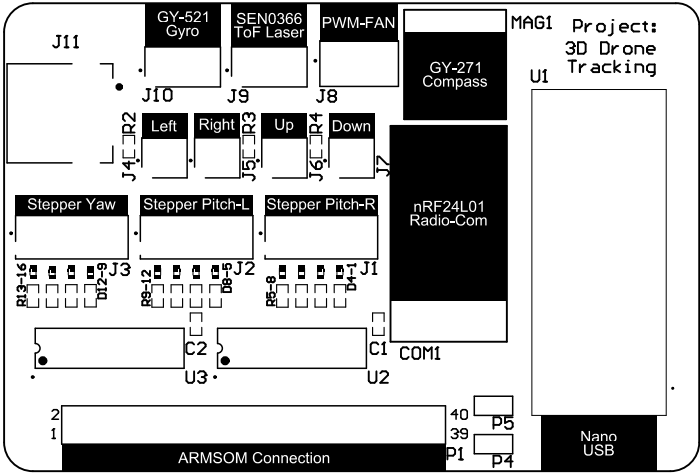
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4



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TITEL: 3D DRONE TRACKING			
NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: LAYOUT BOTTOM
DATUM: 14/11/2024	REVISION: 0.1	MASZTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF
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TITEL: 3D DRONE TRACKING			
NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: BESTUECK. TOP
DATUM: 14/11/2024	REVISION: 0.1	MASZSTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF
SACHNUMMER/DATENNAME: Sheet1.PcbDoc			BLATT: 4
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D



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TITEL:  
3D DRONE TRACKING

NAME:  
LUKAS KRAHBICHLER

GRUPPE:	1
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KLASSE:  
5CHEL

DOKUMENTENART:  
BESTUECK. BOTTOM

DATUM:  
14/11/2024

REVISION:	0.1
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MASZSTAB:  
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DOKUMENTENSTATUS:  
ENTWURF

SACHNUMMER/DATE\NAME:  
Sheet1.PcbDoc

BLATT:	5
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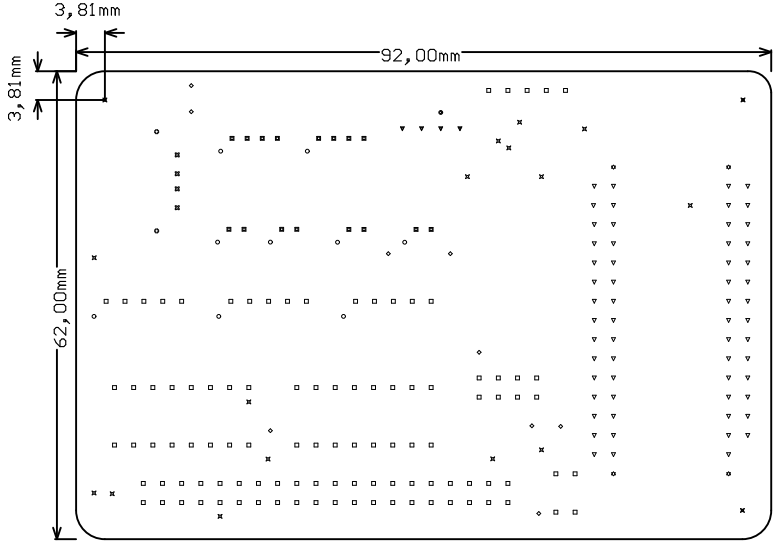
BLAETTER:  
6

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Symbol	Count	Hole Size	Plated	Hole Type
⊙	1	49,21mil <1,250mm>	NPTH	Round
⊕	2	90,55mil <2,300mm>	PTH	Round
⊗	3	118,11mil <3,000mm>	PTH	Round
⊗	4	36,22mil <0,920mm>	PTH	Round
▼	4	40,16mil <1,020mm>	PTH	Round
☆	4	65,00mil <1,651mm>	NPTH	Round
◇	9	30,00mil <0,762mm>	PTH	Round
○	9	43,31mil <1,100mm>	NPTH	Round
⊗	15	28,00mil <0,711mm>	PTH	Round
⊕	16	27,56mil <0,700mm>	PTH	Round
▼	59	39,37mil <1,000mm>	PTH	Round
□	104	35,43mil <0,900mm>	PTH	Round
230 Total				



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TITEL: 3D DRONE TRACKING				
NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: BOHRPLAN	
DATUM: 14/11/2024	REVISION: 0.1	MASZSTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF	
SACHNUMMER/DATENNAME: Sheet1.PcbDoc			BLATT: 6	BLAETTER: 6

Designator	Quantity	Value	Comment	Footprint	Description
COM1	1		2.4 GHz radio module	nRF24L01	Header, 4-Pin, Dual row
J8	1		47053-1000	FP-470531000-MFG	CONN HEADER VERT 4POS 2.54MM
J11	1		292303-1	TE-292303-1_V	1 Port Right Angle Through Hole Mount Female Type A USB Connector, 4 Position, -55 to 85 degC, RoHS, Tube
MAG1	1		GY-271	GY271	I2C Compass Module Compass Magnet Sensor
P1	1		Header 20X2	HDR2X20	Header, 20-Pin, Dual row
U1	1		A000005	MODULE_A000005	Small, complete, and breadboard-friendly board based on the ATmega328 (Arduino Nano 3.x).
C1, C2	2	100nF	100nF	C_SMD_C0402	SMD Capacitor
J9, J10	2		B04B-PASK-1(LF)(SN)	FP-B04B-PASK-1_LF_SN-MFG	CONN HEADER VERT 4POS2MM
P4, P5	2		Header 2	HDR1X2	Header, 2-Pin
U2, U3	2		ULN2003AN	STM-DIP-16L	Seven Darlington Array, 50 V, 0.5 A, -40 to 85 degC, 16-Pin DIP, RoHS, Tube
J1, J2, J3	3		Motor	FP-B5B-XH-AM_LF_SN-MFG	CONN HEADER VERT 5POS2.5MM
R2, R3, R4	3	10k	10k	R_SMD_R0402	SMD Resistor
D1, D2, D3, D4	4		SMD LED RED	SMD_0603_CHIP-LED	Red GaAs LED (Vf=2V, If=20mA)
D5, D6, D7, D8	4		SMD LED GREEN	SMD_0603_CHIP-LED	Green GaAs LED (Vf=2V, If=20mA)
D9, D10, D11, D12	4		SMD LED BLUE	SMD_0603_CHIP-LED	Blue SiC LED (Vf=3.2V, If=20mA)
J4, J5, J6, J7	4		B02B-PASK-1(LF)(SN)	FP-B02B-PASK-1_LF_SN-MFG	CONN HEADER VERT 2POS2MM
R13, R14, R15, R16	4	91	91	R_SMD_R0402	SMD Resistor
R5, R6, R7, R8, R9, R10, R11, R12	8	150	150	R_SMD_R0402	SMD Resistor