

A

B

C

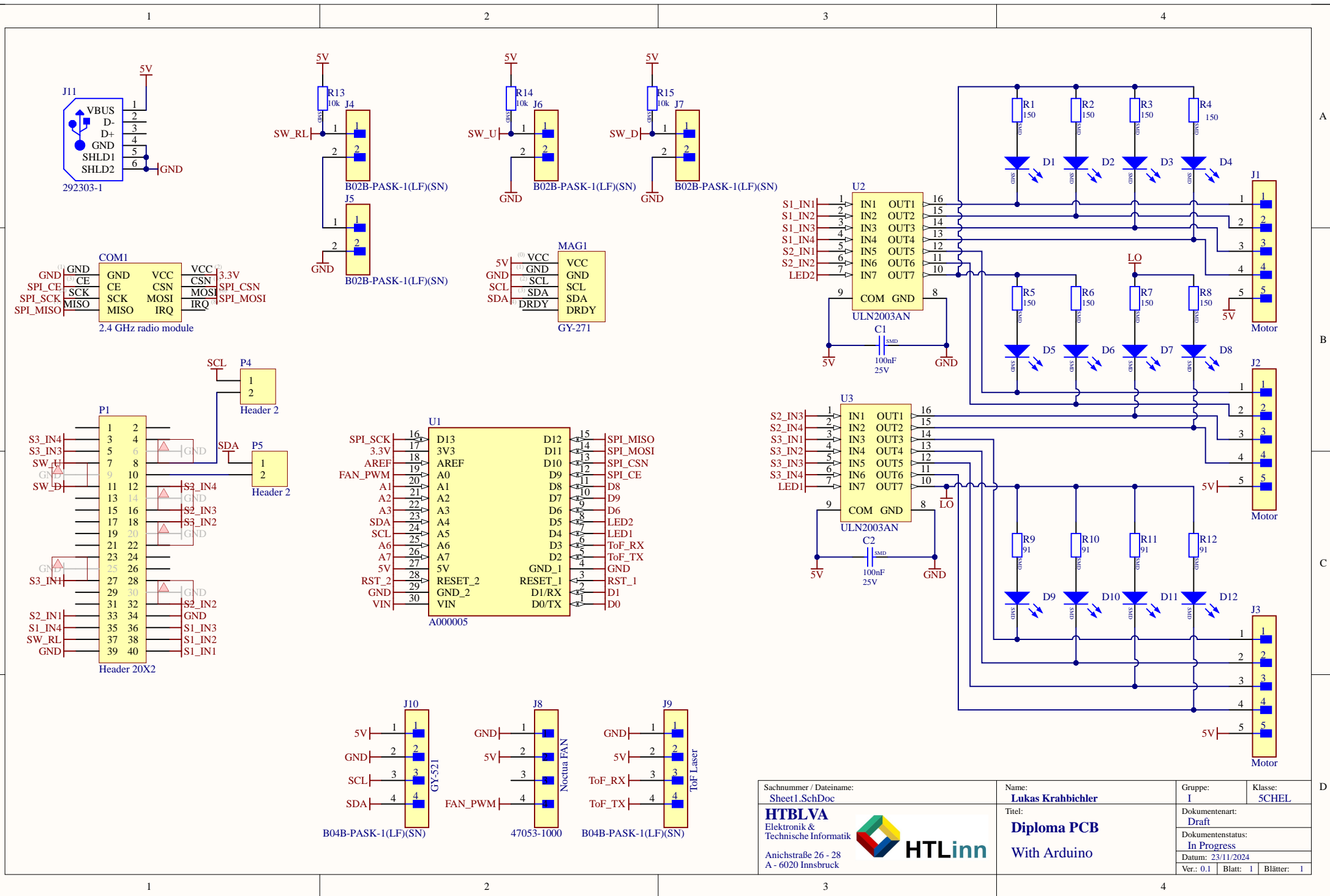
D

A

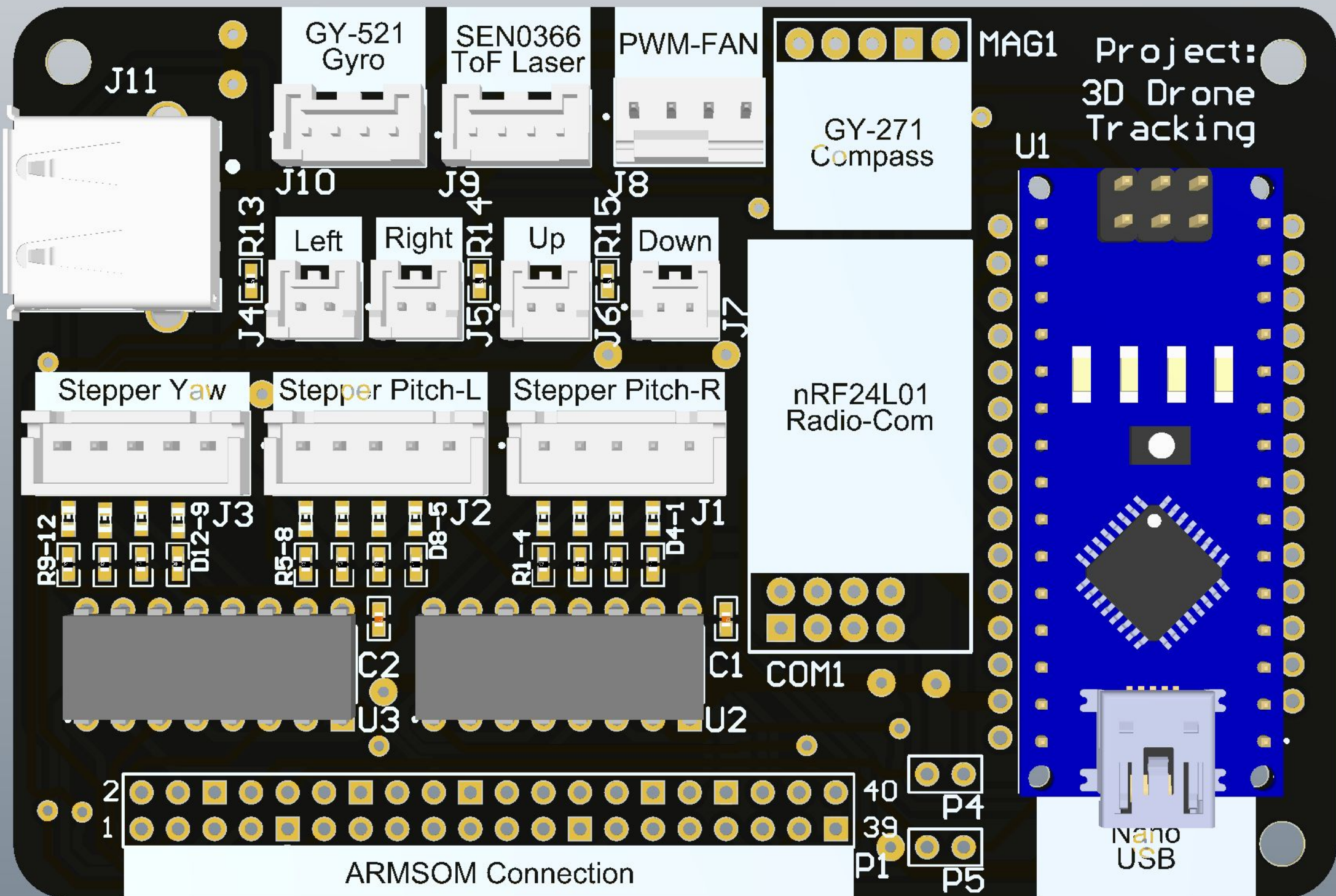
B

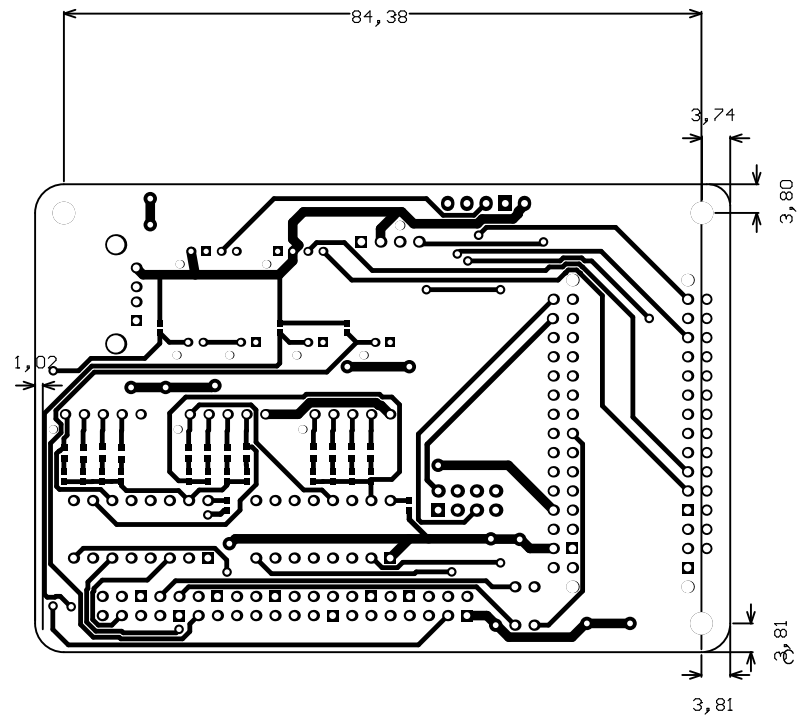
C

D



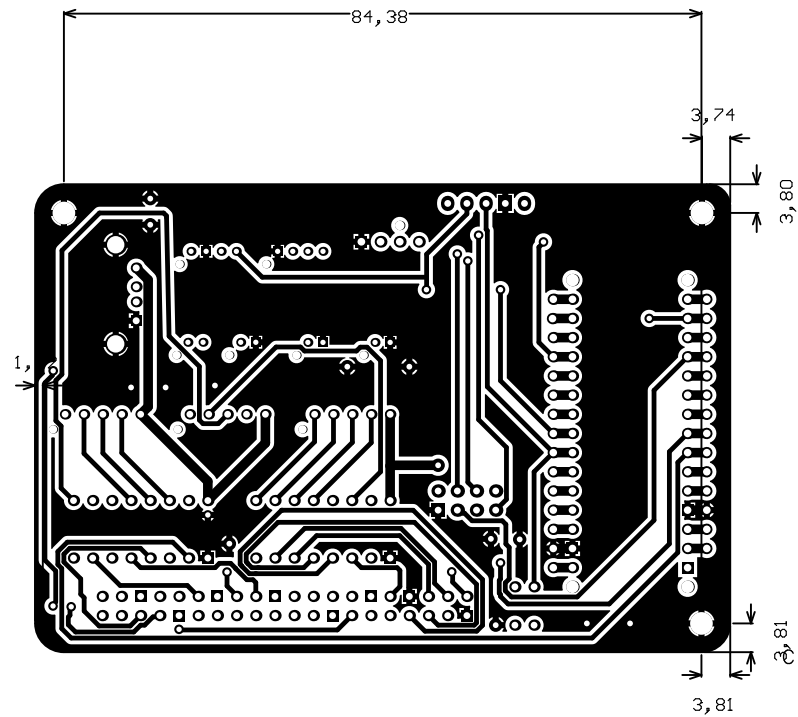
Sachnummer / Dateiname: Sheet1.SchDoc	Name: Lukas Krabbichler	Gruppe: I	Klasse: SCHEL
HTBLVA Elektronik & Technische Informatik	Titel: <b>Diploma PCB</b> With Arduino	Dokumentenart: Draft	
Anichstraße 26 - 28 A - 6020 Innsbruck		Dokumentenstatus: In Progress	
		Datum: 23/11/2024	
		Ver.: 0.1	Blatt: 1   Blätter: 1





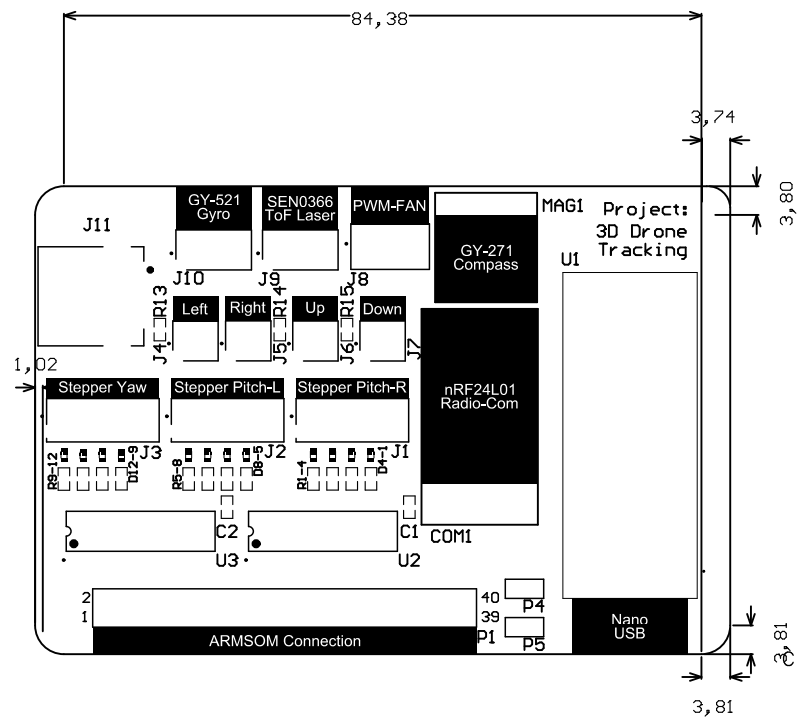
HTBLVA  
Abt. Elektronik  
Anichstrasse 26-28  
A-6020 Innsbruck

TITEL: 3D DRONE TRACKING			
NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: LAYOUT TOP
DATUM: 23/11/2024	REVISION: 0.1	MASZSTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF
SACHNUMMER/DATENNAME: Sheet1.PcbDoc			BLATT: 2
			BLAETTER: 6



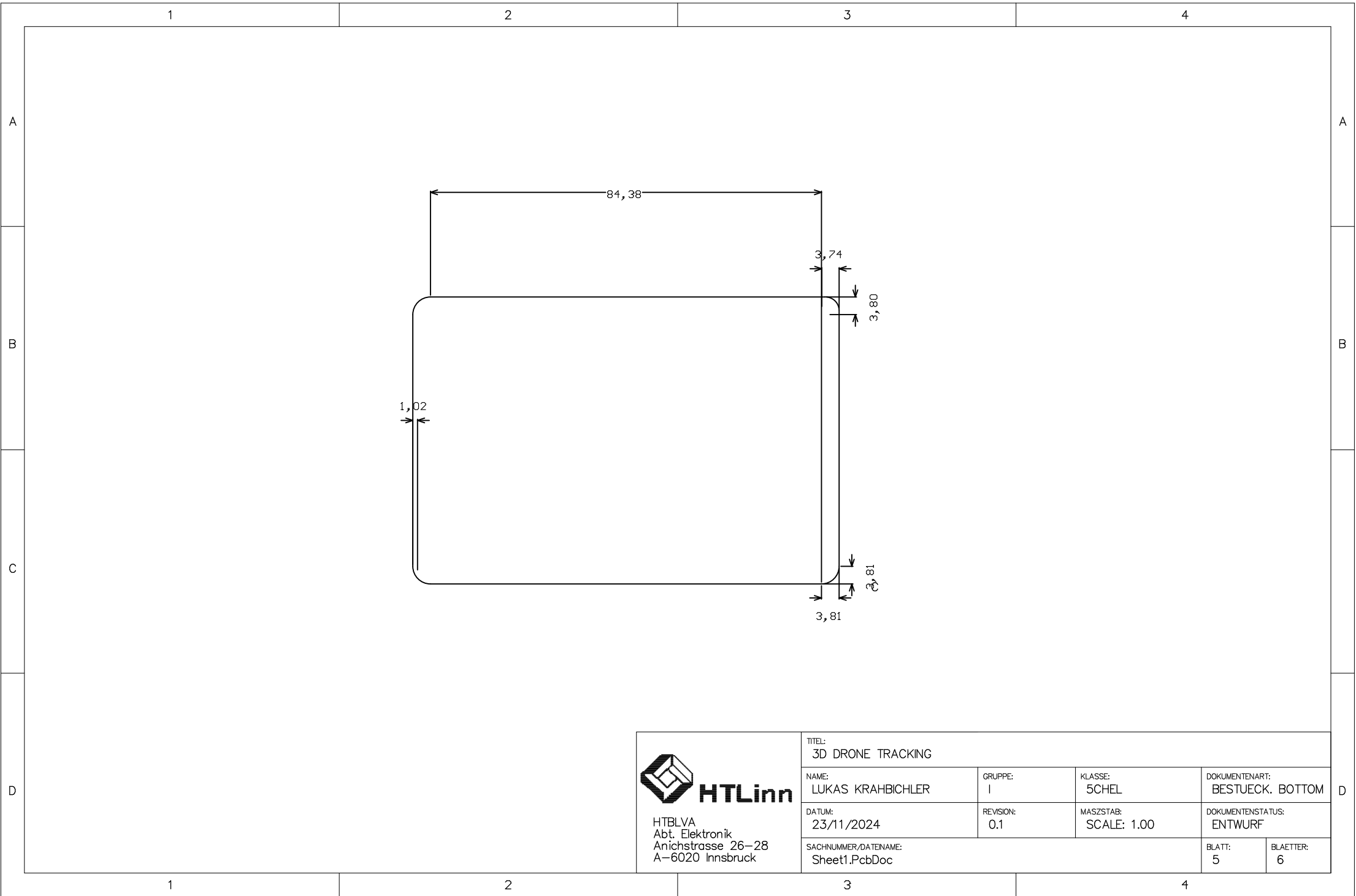
HTBLVA  
Abt. Elektronik  
Anichstrasse 26-28  
A-6020 Innsbruck

TITEL: 3D DRONE TRACKING			
NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: LAYOUT BOTTOM
DATUM: 23/11/2024	REVISION: 0.1	MASZSTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF
SACHNUMMER/DATENNAME: Sheet1.PcbDoc			BLATT: 3
			BLAETTER: 6



HTBLVA  
Abt. Elektronik  
Anichstrasse 26-28  
A-6020 Innsbruck

TITEL: 3D DRONE TRACKING			
NAME: LUKAS KRAHBICHLER	GRUPPE: I	KLASSE: 5CHEL	DOKUMENTENTART: BESTUECK. TOP
DATUM: 23/11/2024	REVISION: 0.1	MASZSTAB: SCALE: 1.00	DOKUMENTENSTATUS: ENTWURF
SACHNUMMER/DATENNAME: Sheet1.PcbDoc			BLATT: 4
			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
R13, R14, R15	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
R9, R10, R11, R12	4	91	91	R_SMD_R0402	SMD Resistor
R1, R2, R3, R4, R5, R6, R7, R8	8	150	150	R_SMD_R0402	SMD Resistor