

## Disco\_Connection

16 units apart = 2.54 x 16

Conn_01x33_Female		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	Conn_01x33_Female																																
		1	→ +3V0	2	→ +3V0	3	VBAT	4	PC13	5	PC14	6	PC15	7	PF0	8	PF1	9	→ GND	10	NRST	11	PC0	12	PC1	13	PC2	14	PC3	15	PA0	16	PA1	17	PA2	18	PA3	19	PF4	20	PF5	21	PA4	22	PA5	23	PA6	24	PA7	25	PC4	26	PC5	27	PB0	28	PB1	29	PB2	30	PB10	31	PB11	32	PB12	33	→ GND
		1	→ +3V0	2	→ +3V0	3	VBAT	4	PC13	5	PC14	6	PC15	7	PF0	8	PF1	9	→ GND	10	NRST	11	PC0	12	PC1	13	PC2	14	PC3	15	PA0	16	PA1	17	PA2	18	PA3	19	PF4	20	PF5	21	PA4	22	PA5	23	PA6	24	PA7	25	PC4	26	PC5	27	PB0	28	PB1	29	PB2	30	PB10	31	PB11	32	PB12	33	→ GND
		1	→ +5V	2	→ +5V	3	PB9	4	PB8	5	→ VDD	6	BOOT	7	PB7	8	PB6	9	PB5	10	PB4	11	PB3	12	PD2	13	PC12	14	PC11	15	PC10	16	PA15	17	PA14	18	PF7	19	PF6	20	PA13	21	PA12	22	PA11	23	PA10	24	PA9	25	PA8	26	PC9	27	PC8	28	PC7	29	PC6	30	PB15	31	PB14	32	PB13	33	→ GND
		1	→ +5V	2	→ +5V	3	PB9	4	PB8	5	→ VDD	6	BOOT	7	PB7	8	PB6	9	PB5	10	PB4	11	PB3	12	PD2	13	PC12	14	PC11	15	PC10	16	PA15	17	PA14	18	PF7	19	PF6	20	PA13	21	PA12	22	PA11	23	PA10	24	PA9	25	PA8	26	PC9	27	PC8	28	PC7	29	PC6	30	PB15	31	PB14	32	PB13	33	→ GND
J1		1	→ GND	2	→ GND	3	NRST	4	PC0	5	PC1	6	PC2	7	PC3	8	PA0	9	PA1	10	PA2	11	PA3	12	PF4	13	PF5	14	PA4	15	PA5	16	PA6	17	PA7	18	PC4	19	PC5	20	PC6	21	PC7	22	PC8	23	PC9	24	PC10	25	PC11	26	PC12	27	PC13	28	PC14	29	PC15	30	PC16	31	PC17	32	PC18	33	→ GND
J2		1	→ GND	2	→ GND	3	NRST	4	PC0	5	PC1	6	PC2	7	PC3	8	PA0	9	PA1	10	PA2	11	PA3	12	PF4	13	PF5	14	PA4	15	PA5	16	PA6	17	PA7	18	PC4	19	PC5	20	PC6	21	PC7	22	PC8	23	PC9	24	PC10	25	PC11	26	PC12	27	PC13	28	PC14	29	PC15	30	PC16	31	PC17	32	PC18	33	→ GND
J3		1	→ GND	2	→ GND	3	NRST	4	PC0	5	PC1	6	PC2	7	PC3	8	PA0	9	PA1	10	PA2	11	PA3	12	PF4	13	PF5	14	PA4	15	PA5	16	PA6	17	PA7	18	PC4	19	PC5	20	PC6	21	PC7	22	PC8	23	PC9	24	PC10	25	PC11	26	PC12	27	PC13	28	PC14	29	PC15	30	PC16	31	PC17	32	PC18	33	→ GND
J4		1	→ GND	2	→ GND	3	NRST	4	PC0	5	PC1	6	PC2	7	PC3	8	PA0	9	PA1	10	PA2	11	PA3	12	PF4	13	PF5	14	PA4	15	PA5	16	PA6	17	PA7	18	PC4	19	PC5	20	PC6	21	PC7	22	PC8	23	PC9	24	PC10	25	PC11	26	PC12	27	PC13	28	PC14	29	PC15	30	PC16	31	PC17	32	PC18	33	→ GND

## Testpoints

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 @Checked By:  
 Group 7

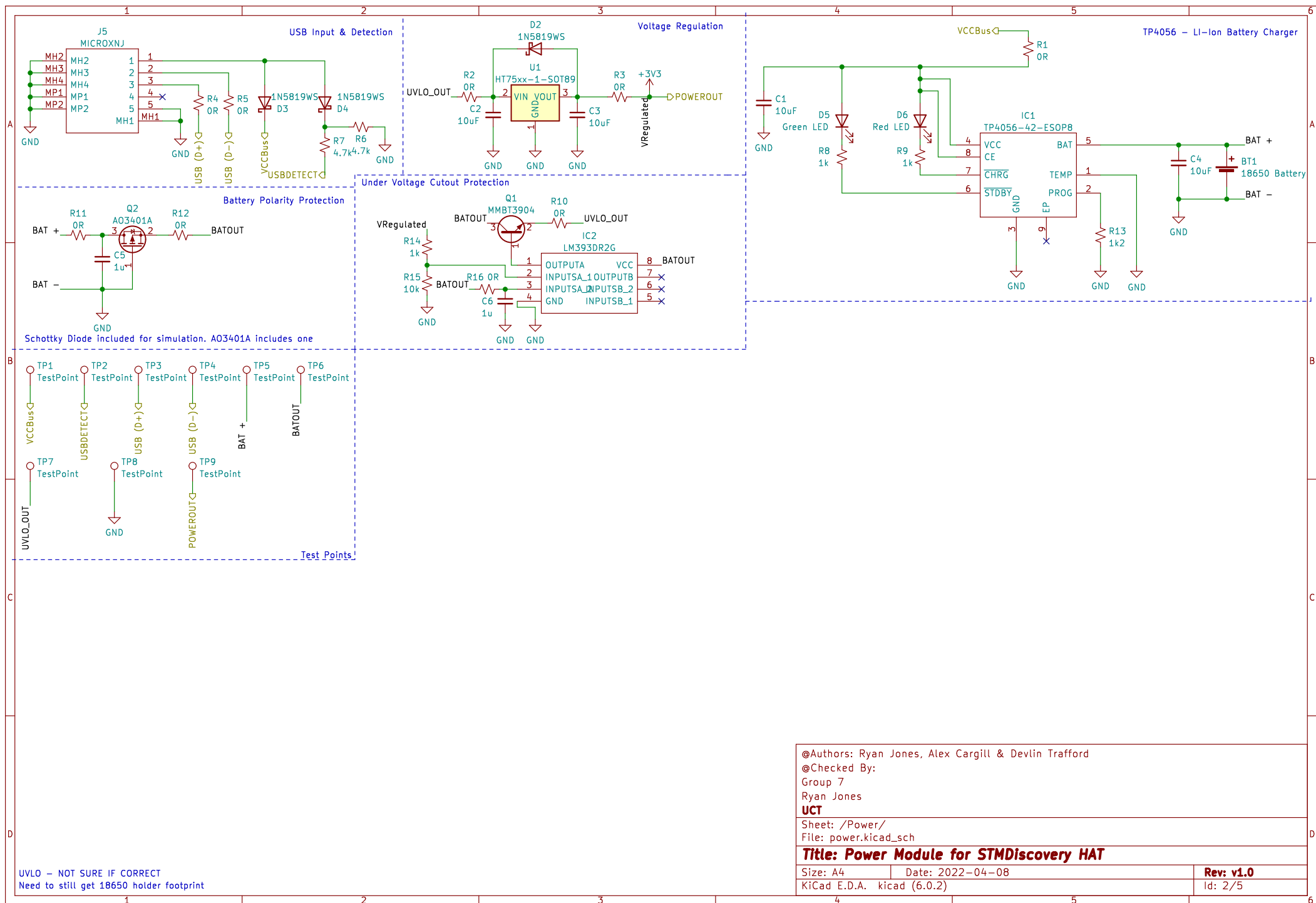
## UCT

Sheet: /  
 File: main.kicad\_sch

## Title: EEE3088F Discovery HAT Project

Size: A4 Date: 2022-04-08 Rev: v1.0  
 KiCad E.D.A. kicad (6.0.2) Id: 1/5

Useful to watch: <https://www.youtube.com/watch?v=gGix1oYhTRs>



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Ryan Jones

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Sheet: /Power/

File: power.kicad\_sch

**Title: Power Module for STMDiscovery HAT**

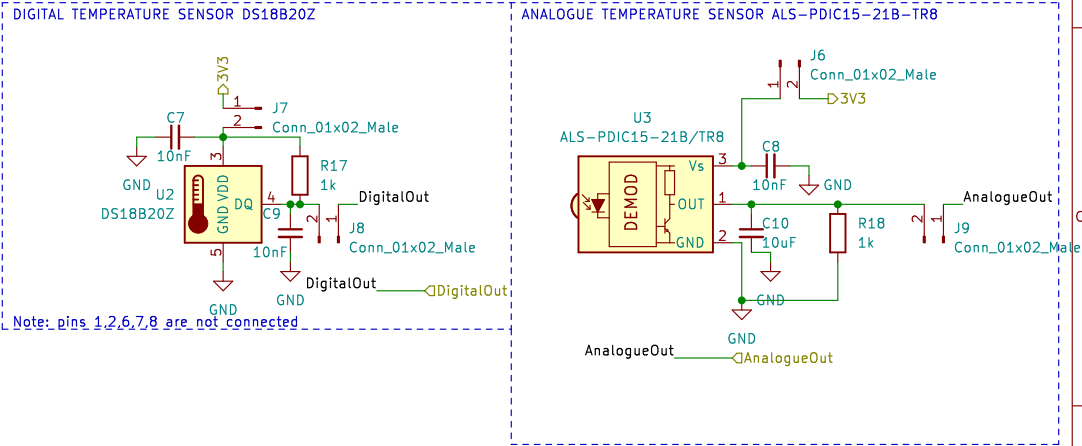
Size: A4 Date: 2022-04-08

KiCad E.D.A. kicad (6.0.2)

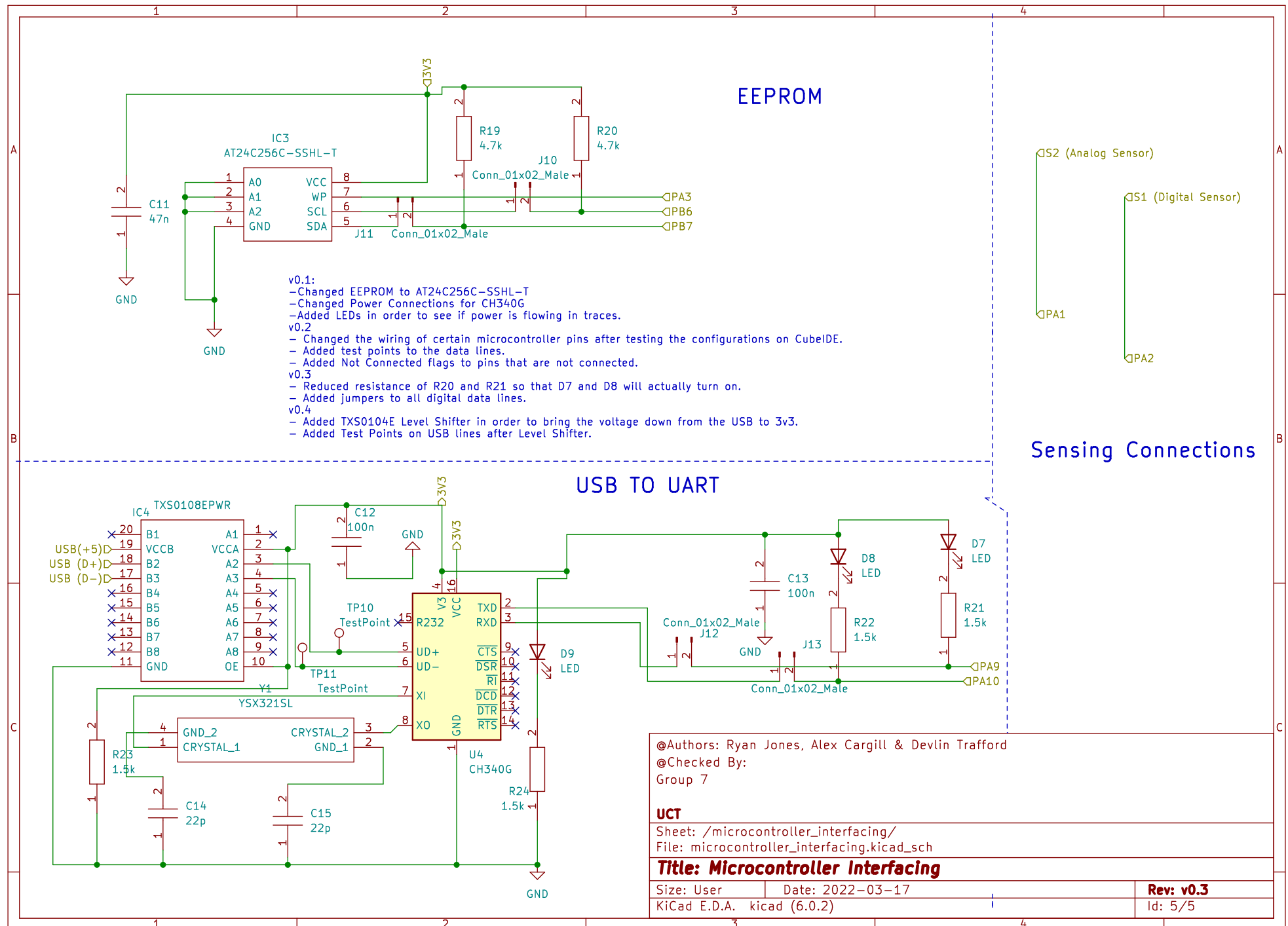
Rev: v1.0

Id: 2/5

Sensors and supporting analog components, decoupling, pin assignments



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Sheet: /Sensing/	
File: sensing.kicad_sch	
Title: Sensing Submodule	
Size: A4	Date: 2022-04-08
KiCad E.D.A. kicad (6.0.2)	Rev: v1.0
	Id: 3/5



	1	2	3	4	5	6
A						A
B						B
C						C
D						D
	1	2	3	4	5	6

Not sure if you want this here:

GP LEDS  
PushButton or 2 for testing  
USB Connector  
Testing Connector  
Jumpers for debugging and inserting signals

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Sheet: /Outputs/		
File: outputs.kicad_sch		
Title:		
Size: A4	Date: 2022-04-08	Rev: v1.0
KiCad E.D.A. kicad (6.0.2)		Id: 5/5