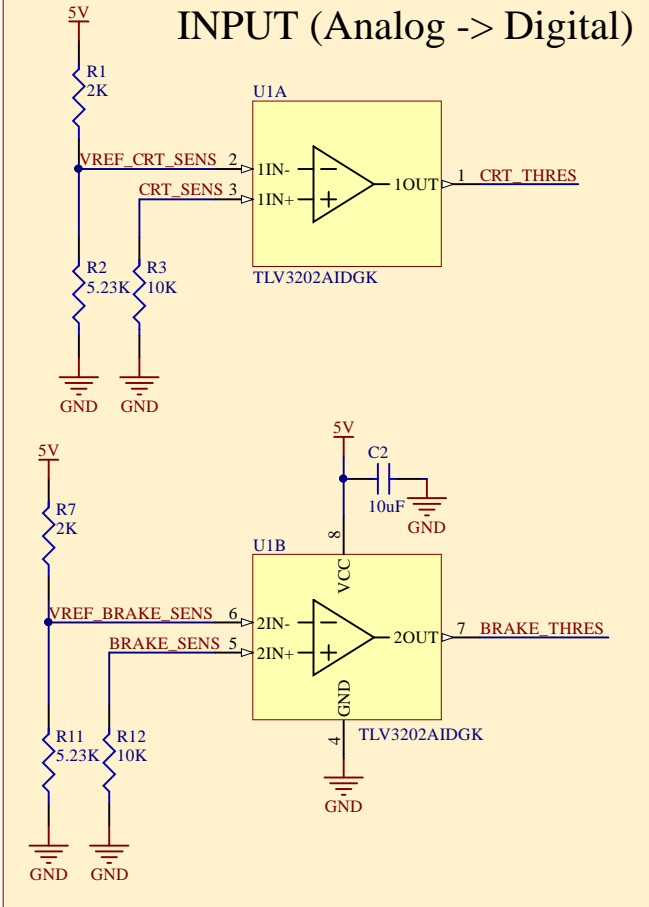
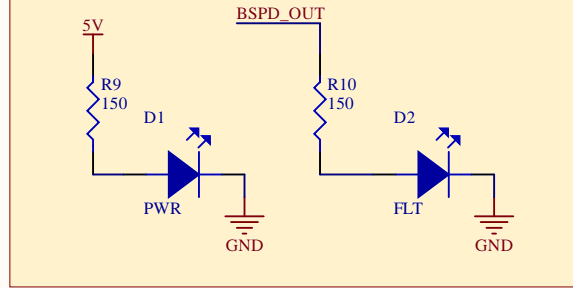


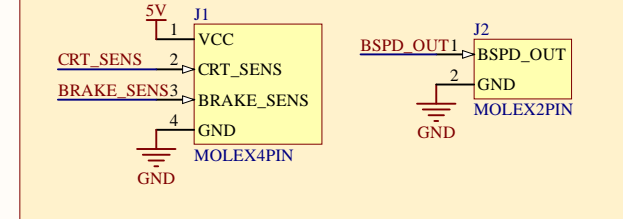
INPUT (Analog -> Digital)



LEDs

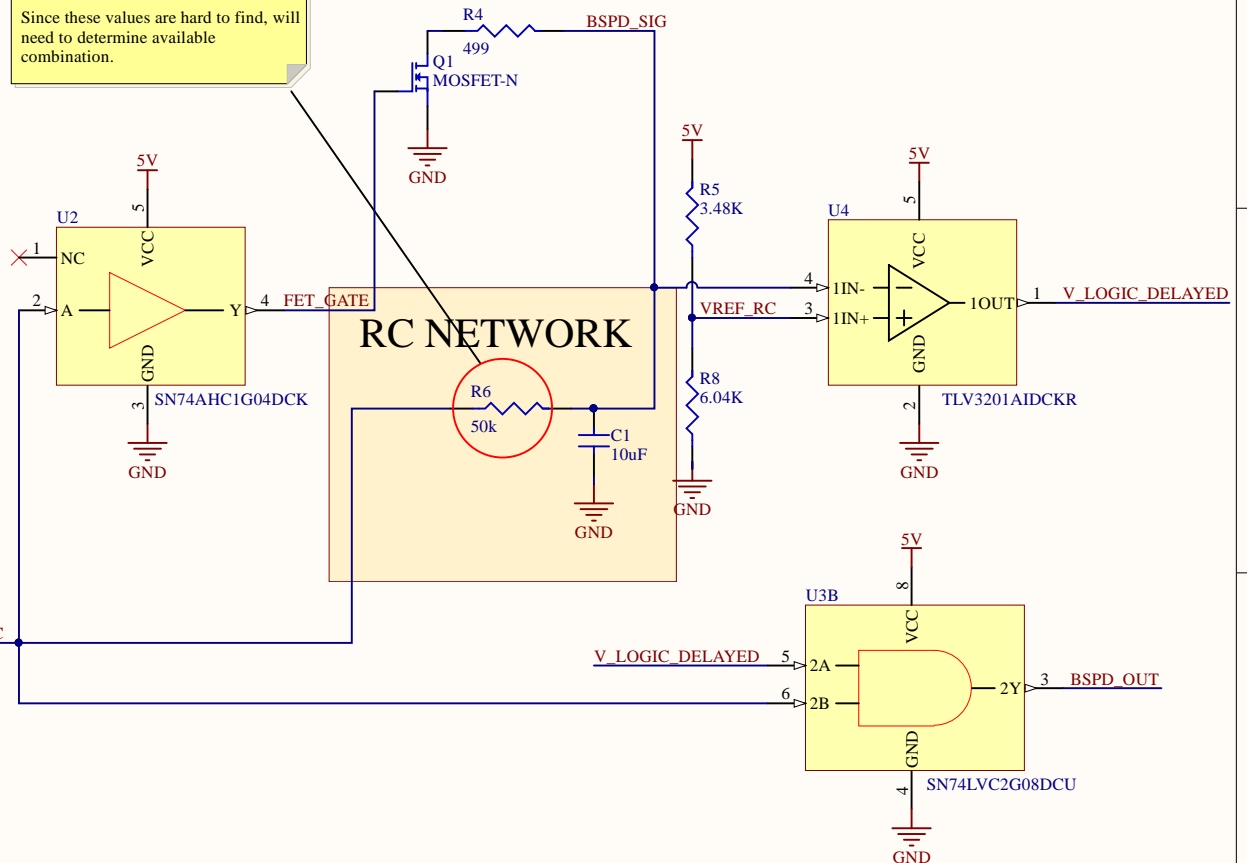


HEADERS



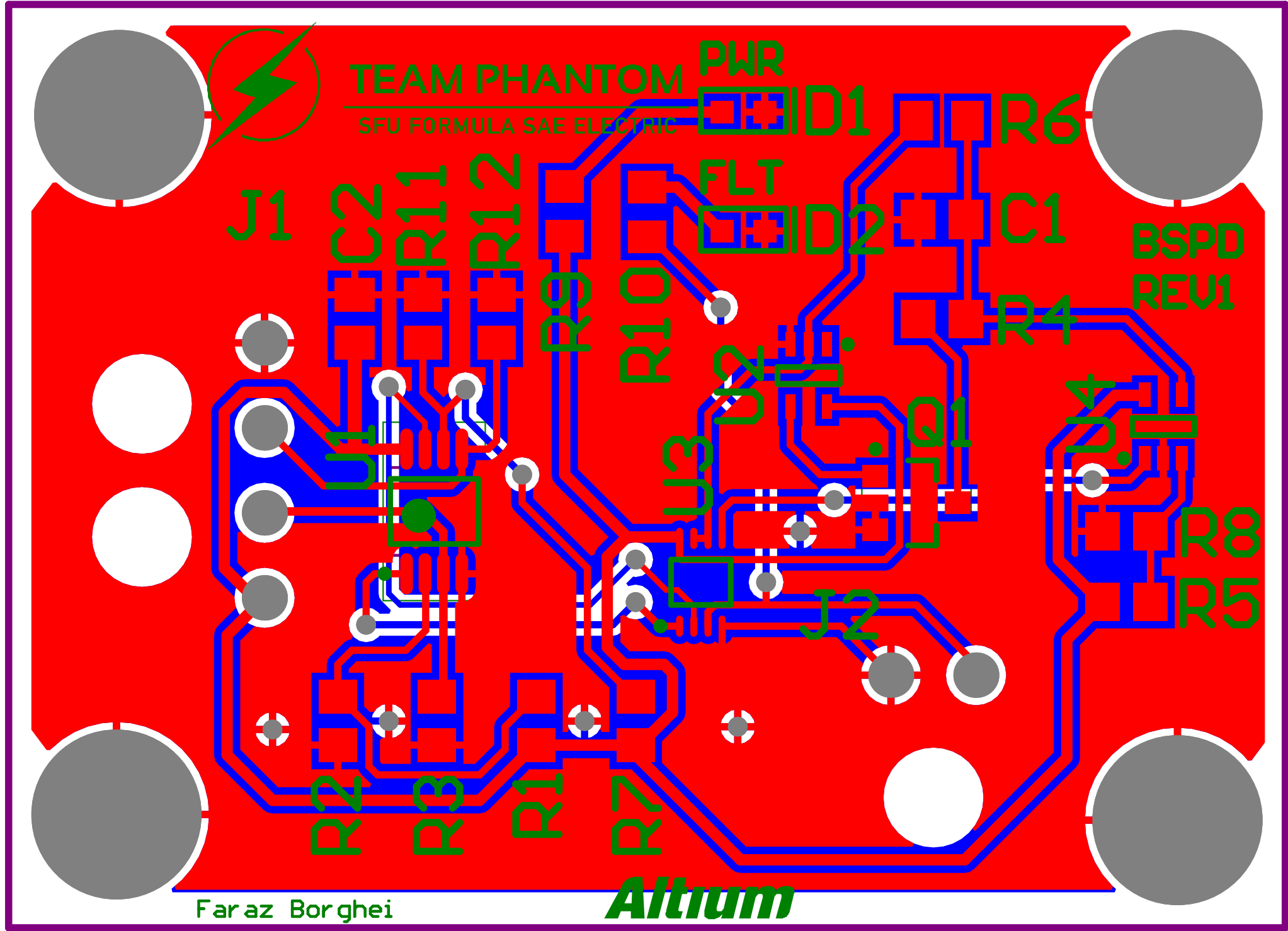
Want $\tau = 0.5s$ therefore $R \cdot C$ needs to equal 0.5.
e.x. If $C = 10\mu F$ then $R = 50k$
Since these values are hard to find, will need to determine available combination.

RC NETWORK



45 (mm)

32.6 (mm)



Far az Borghei

Altium

Item #	Designator	Description	Name	Quantity	Manufacturer 1	Manufacturer 2
1	C1, C2	Cap Ceramic 10uF 10V X5R 10% SMD	10uF	2	Sams	CL
2	U4	Comparator Single R-R I/P 5.5V 5-P	TLV3201AIDCKR	1	Texas Instruments	T
3	U3	Dual 2-Input Positive-AND Gate	SN74LVC2G08DCU	1	Texas Instruments	SN
4	J2	Headers & Wire Housings R/A HEAD	MOLEX2PIN	1	Molex	
5	U1	IC COMPAR PWR RRI DL PP 8VSS	TLV3202AIDGK	1	Texas Instruments	
6	D1	LED GREEN CLEAR SMD	PWR	1	Vishay Lite-On	L
7	D2	LED RED CLEAR SMD	FLT	1	Vishay Lite-On	L
8	J1	MOLEX 43650-0400 Wire	MOLEX4PIN	1	Molex	
9	Q1	MOSFET N-CH 50V 200MA SOT-23	MOSFET-N	1	ON Semiconductor	
10	R6	RES 50K OHM 0.1% 1/5W 0805	50k	1	Vishay	PT
11	R1, R7	RES SMD 2K OHM 0.1% 1/8W 0805	2K	2	Panasonic	
12	R2, R11	RES SMD 5.23K OHM 0.1% 1/8W 0805	5.23K	2	Panasonic	B
13	R8	RES SMD 6.04K OHM 0.1% 1/8W 0805	6.04K	1	Panasonic	B
14	R3, R12	RES SMD 10K OHM 0.1% 1/8W 0805	10K	2	Panasonic	