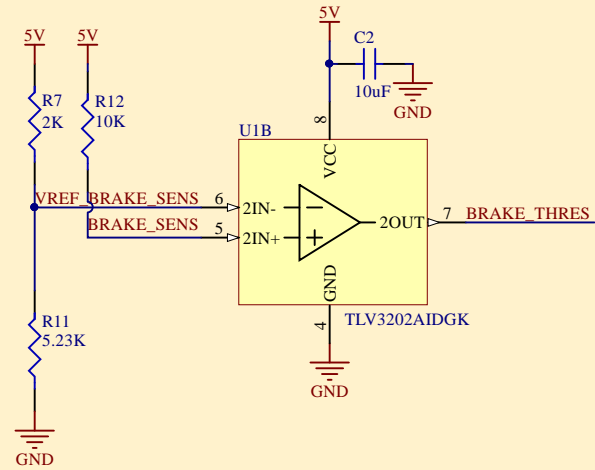
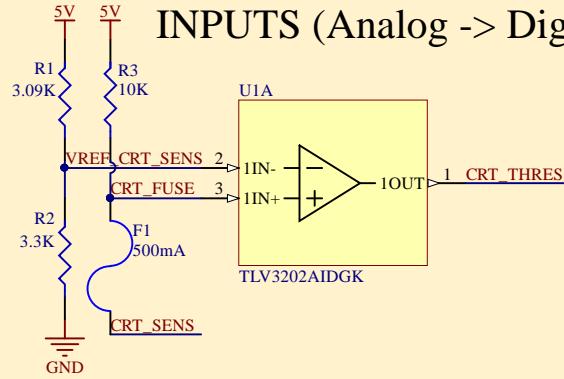
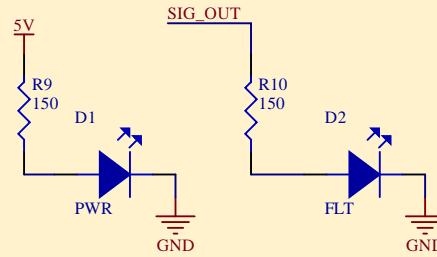


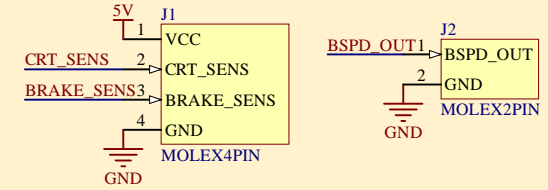
## INPUTS (Analog -> Digital)



## LEDs

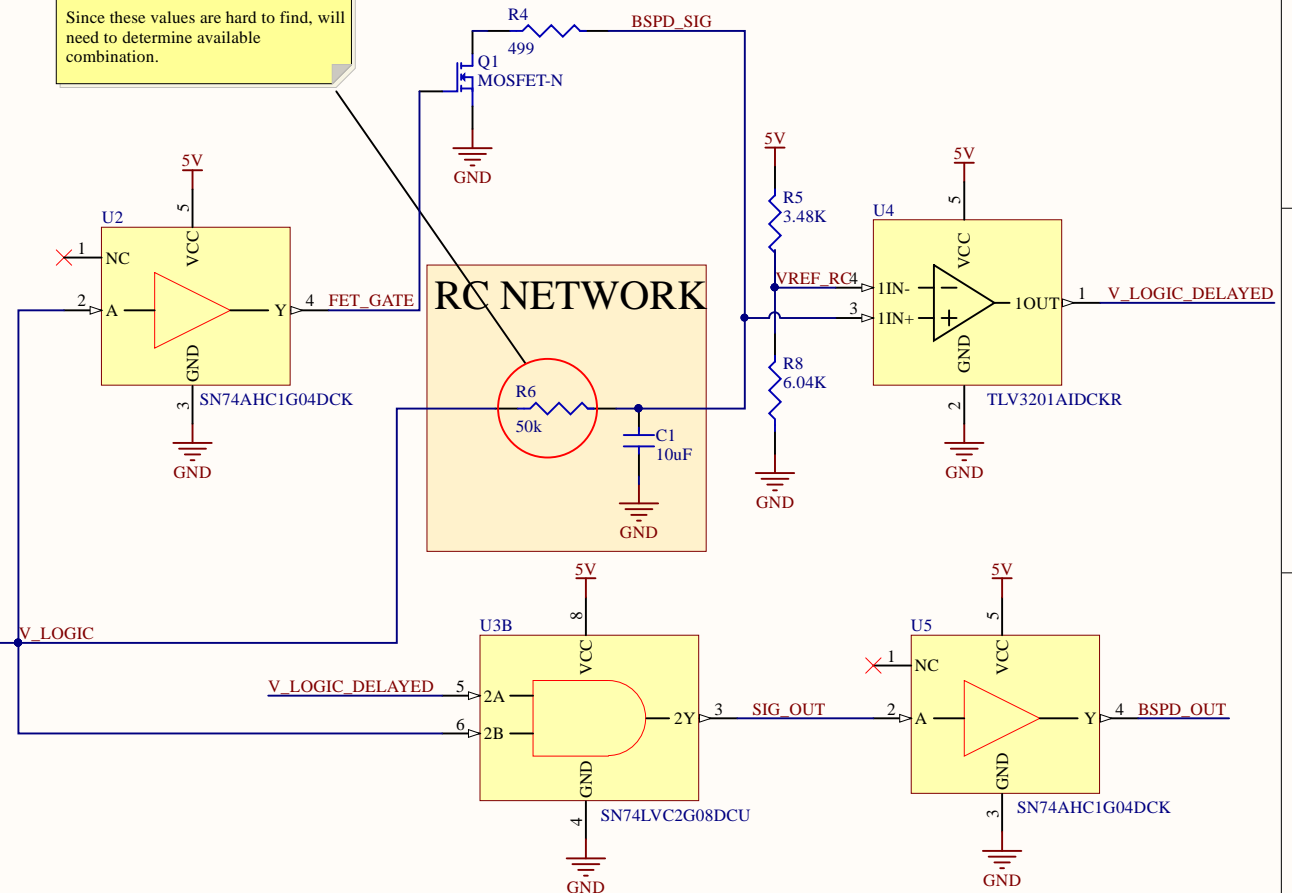


## HEADERS

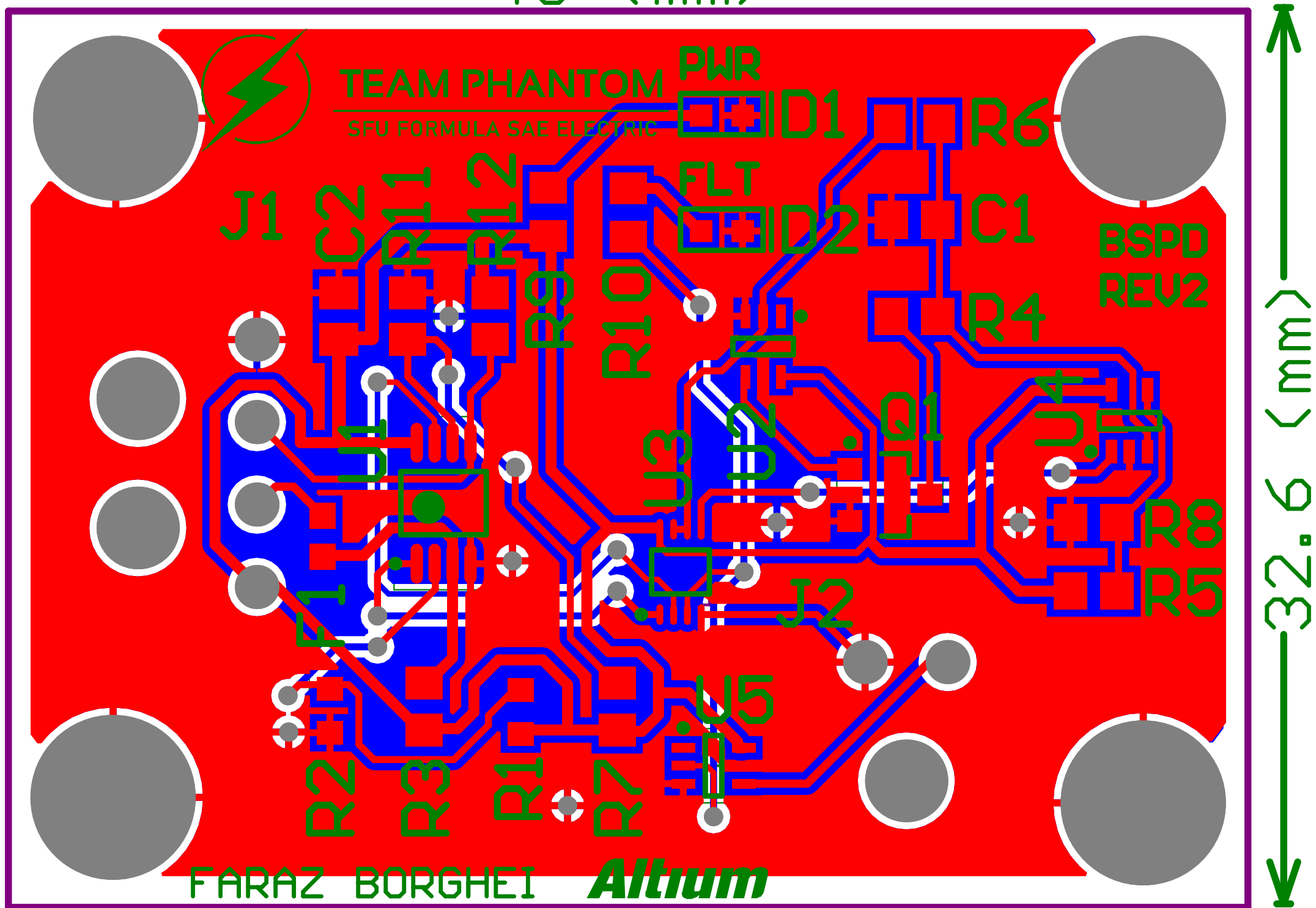


Want  $\tau = 0.5s$  therefore  $R \cdot C$  needs to equal 0.5.  
e.x. If  $C = 10\mu F$  then  $R = 50k$   
Since these values are hard to find, will need to determine available combination.

## RC NETWORK



45 (mm)



# Bill of Materials

Bill of Materials for BOM Document [BSPD.B

Source Data From: BSPD.BomDoc

Project: BSPD.PrPCB

Variant: None

Creation Date: 1/12/20 4:15 PM

Print Date: 12-Jan-20 4:15:54 PM

Footprint	Name	LibRef	Designator	Description
C0805	10uF	CL21A106KPFN	C1, C2	Cap Ceramic 10
TLV3201AIDCK	TLV3201AIDCK	TLV3201AIDCK	U4	Comparator Sin
SN74LVC2G08	SN74LVC2G08	SN74LVC2G08	U3	Dual 2-Input Pos
ERBRE-0603	500mA	ERB-RE0R50V	F1	FUSE BOARD
MOLEX_2PIN	MOLEX2PIN	43650-0200	J2	Headers & Wire
TLV3202AIDCK	TLV3202AIDCK	TLV3202AIDCK	U1	IC COMPAR PW
LED_0603	PWR	LTST-C191KGK	D1	LED GREEN CH
LED_0603	FLT	LTST-C191KRK	D2	LED RED CLEA
MOLEX_4PIN	MOLEX4PIN	43650-0400	J1	MOLEX 43
MOSFET	MOSFET-N	BSS138LT3G	Q1	MOSFET N-CH
RESC2013X	50k	PTN0805E5002	R6	RES 50K OHM
R0805	2K	ERA6AEB202V	R7	RES SMD 2K O
ERJPB3	3.09K	ERJ-PB3B3091V	R1	RES SMD 3.09
ERJPB3	3.3K	ERJ-PB3B3301V	R2	RES SMD 3.3K
R0805	3.48K	ERA-6AEB3481	R5	RES SMD 3.48
R0805	5.23K	ERA6AEB5231V	R11	RES SMD 5.23
R0805	6.04K	ERA6AEB6041V	R8	RES SMD 6.04
R0805	10K	ERA6AEB103V	R3, R12	RES SMD 10K
RESC2012X	150	ERJ6ENF1500V	R9, R10	RES SMD 150