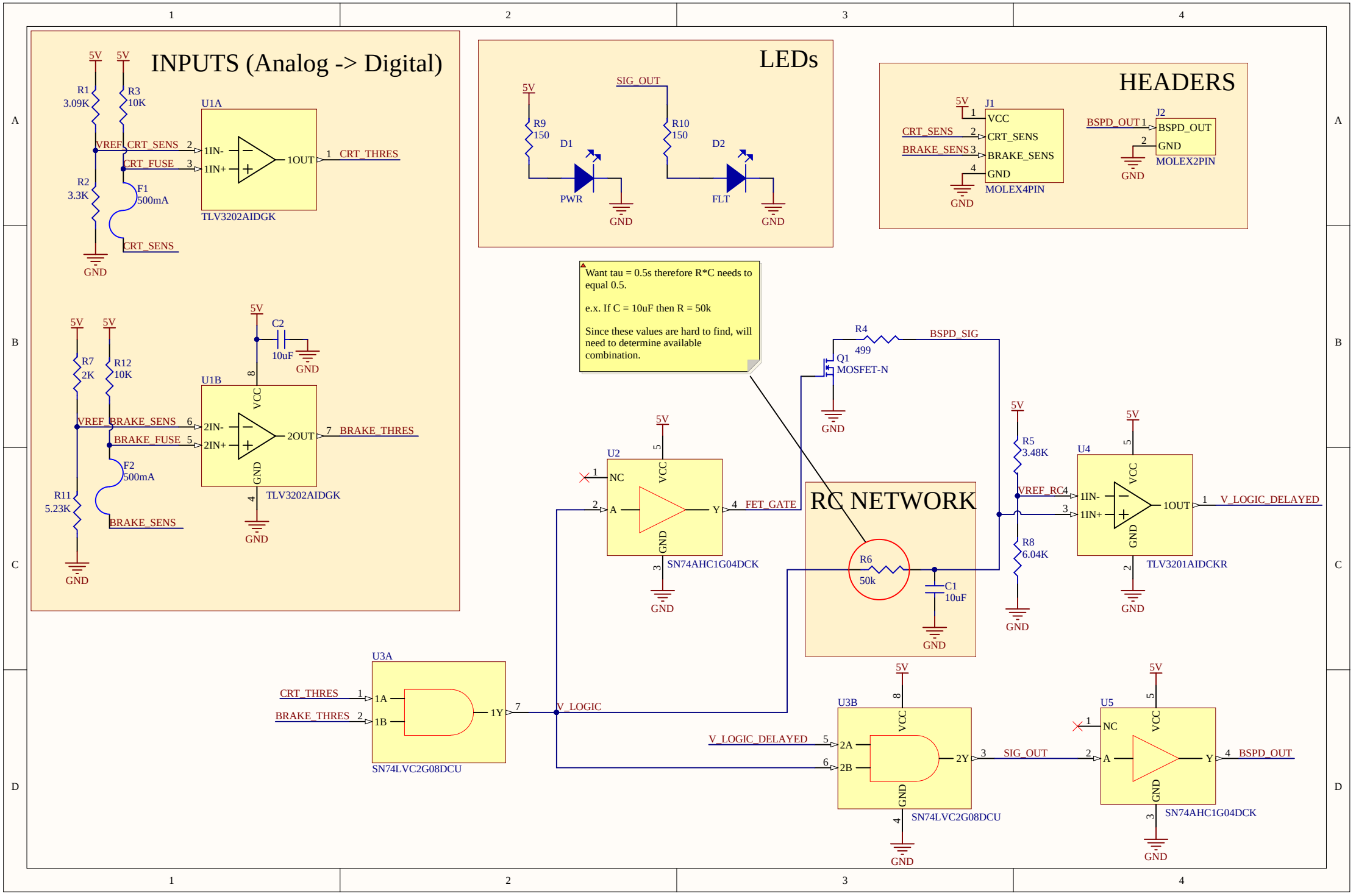
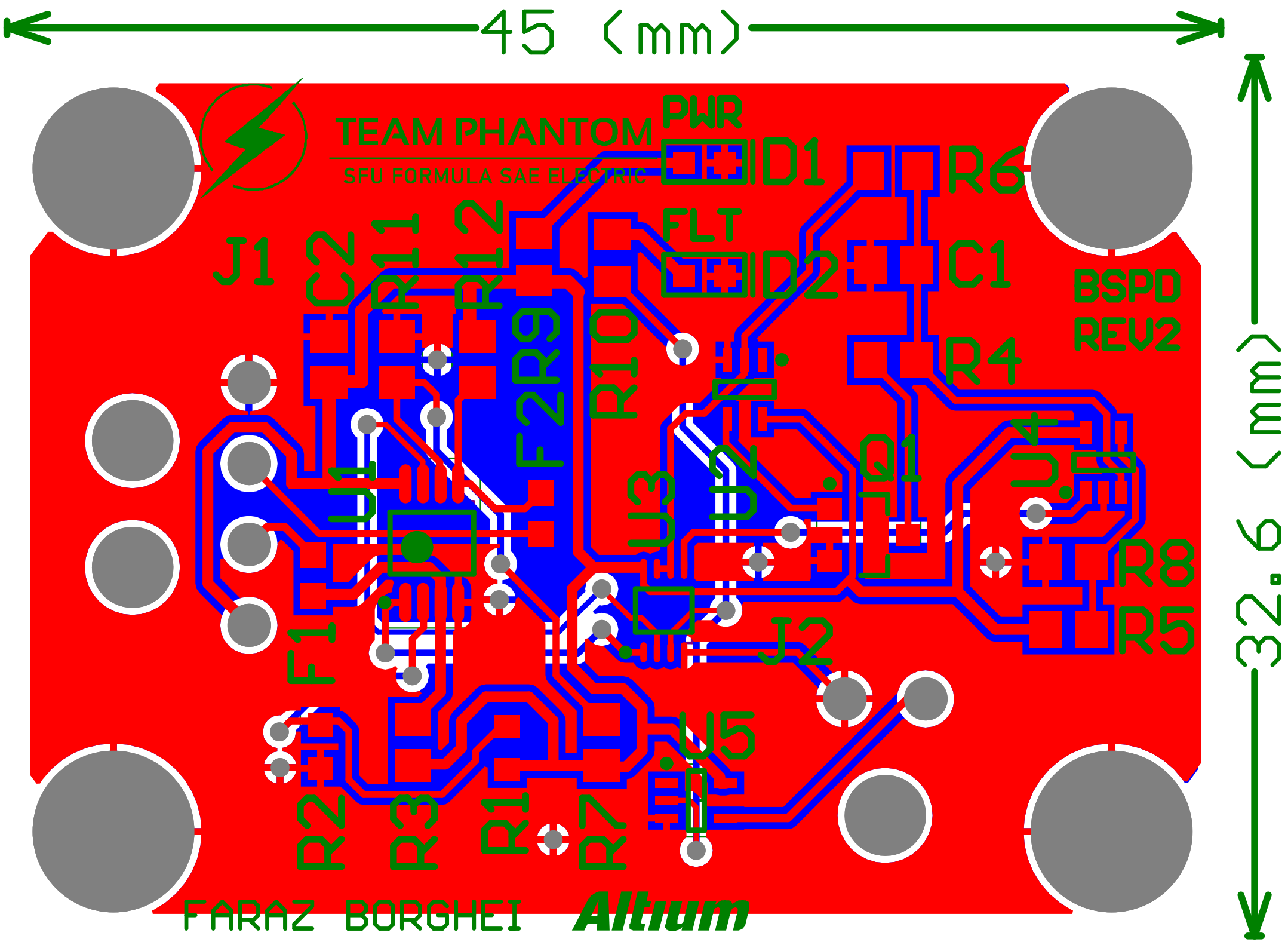

INPUTS (Analog -> Digital)
LEDs
HEADERS
RC NETWORK
Want tau = 0.5s therefore R*C needs to equal 0.5.
e.x. If C = 10uF then R = 50k
Since these values are hard to find, will need to determine available combination.
TLV3202AIDGK
SN74AHC1G04DCK
SN74LVC2G08DCU
TLV3201AIDCKR
MOLEX4PIN
MOLEX2PIN
MOSFET-N
CRT_SENS
BRAKE_SENS
CRT_THRES
BRAKE_THRES
BSPD_SIG
BSPD_OUT
FET_GATE
V_LOGIC
V_LOGIC_DELAYED
SIG_OUT
VREF_RC
5V
GND


45 (mm)
32.6 (mm)
TEAM PHANTOM
SFU FORMULA SAE ELECTRIC
PWR
D1
R6
FLT
D2
C1
BSPD
REV2
J1
C2
C1
R12
R11
F2R9
R10
R4
Q1
J3
J4
R8
R5
J2
F1
U5
R2
R3
R1
R7
FARAZ BORGHEI
Altium

Bill of Materials

Bill of Materials for BOM Document [BSPD.Bo

Source Data From: BSPD.BomDoc
Project: BSPD.PrjPCB
Variant: None

Creation Date: 1/24/20 4:50 PM
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Footprint	Name	LibRef	Designator	Description
C0805	10uF	CL21A106KPFN	C1, C2	Cap Ceramic 10
TLV3201AIDC	TLV3201AIDCKF	TLV3201AIDCKF	U4	Comparator Sin
SN74LVC2G0	SN74LVC2G08D	SN74LVC2G08D	U3	Dual 2-Input Pos
ERBRE-0603	500mA	ERB-RE0R50V	F1, F2	FUSE BOARD
MOLEX_2PIN	MOLEX2PIN	43650-0200	J2	Headers & Wire
TLV3202AIDC	TLV3202AIDGK	TLV3202AIDGK	U1	IC COMPAR PW
LED_0603	PWR	LTST-C191KGKT	D1	LED GREEN CL
LED_0603	FLT	LTST-C191KRKT	D2	LED RED CLEA
MOLEX_4PIN	MOLEX4PIN	43650-0400	J1	MOLEX 43
MOSFET	MOSFET-N	BSS138LT3G	Q1	MOSFET N-CH
RESC2013X1	50k	PTN0805E5002	R6	RES 50K OHM
R0805	2K	ERA6AEB202V	R7	RES SMD 2K C
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
RESC2012X0	150	ERJ6ENF1500V	R9, R10	RES SMD 150