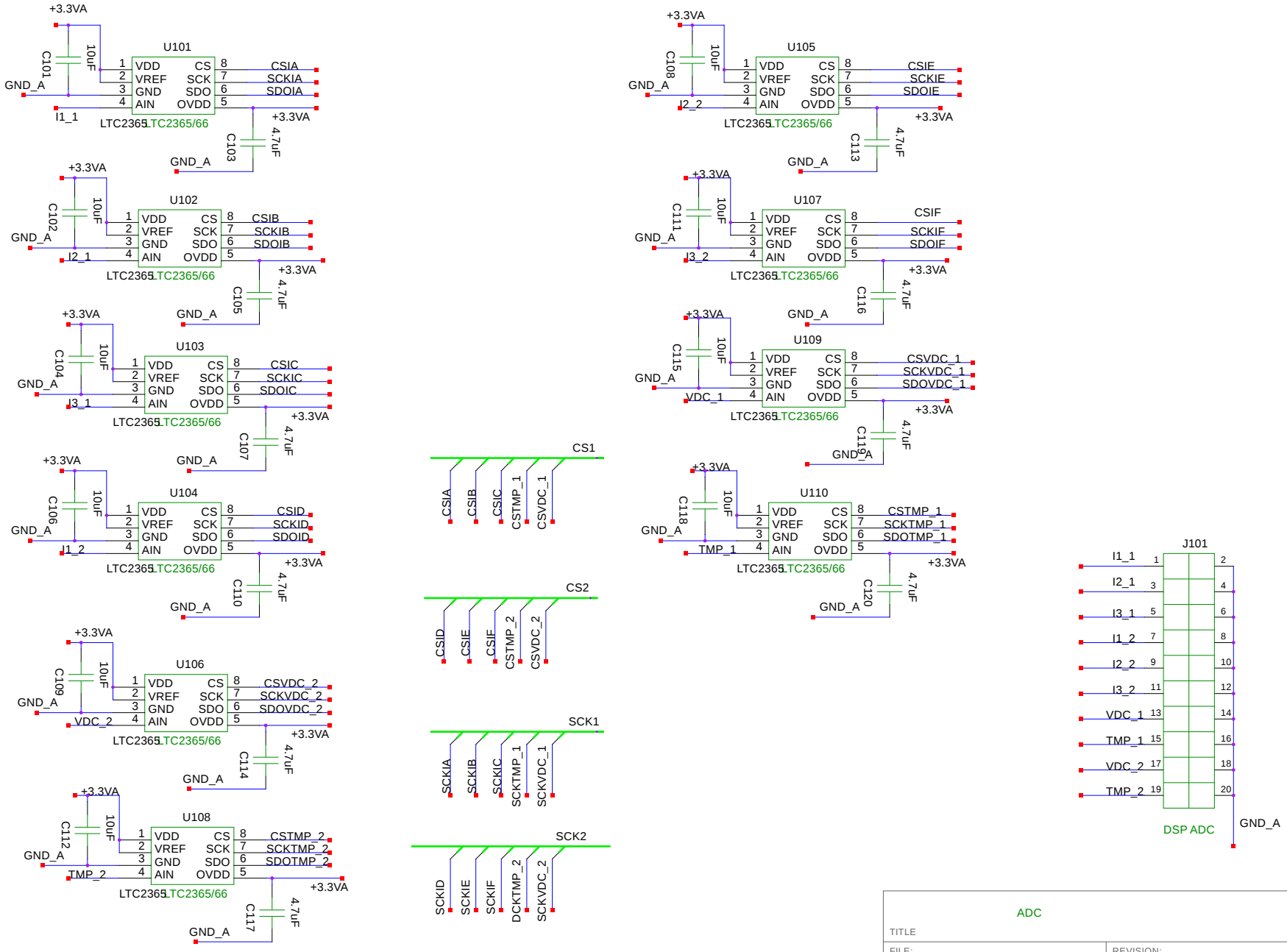

ADC

TITLE

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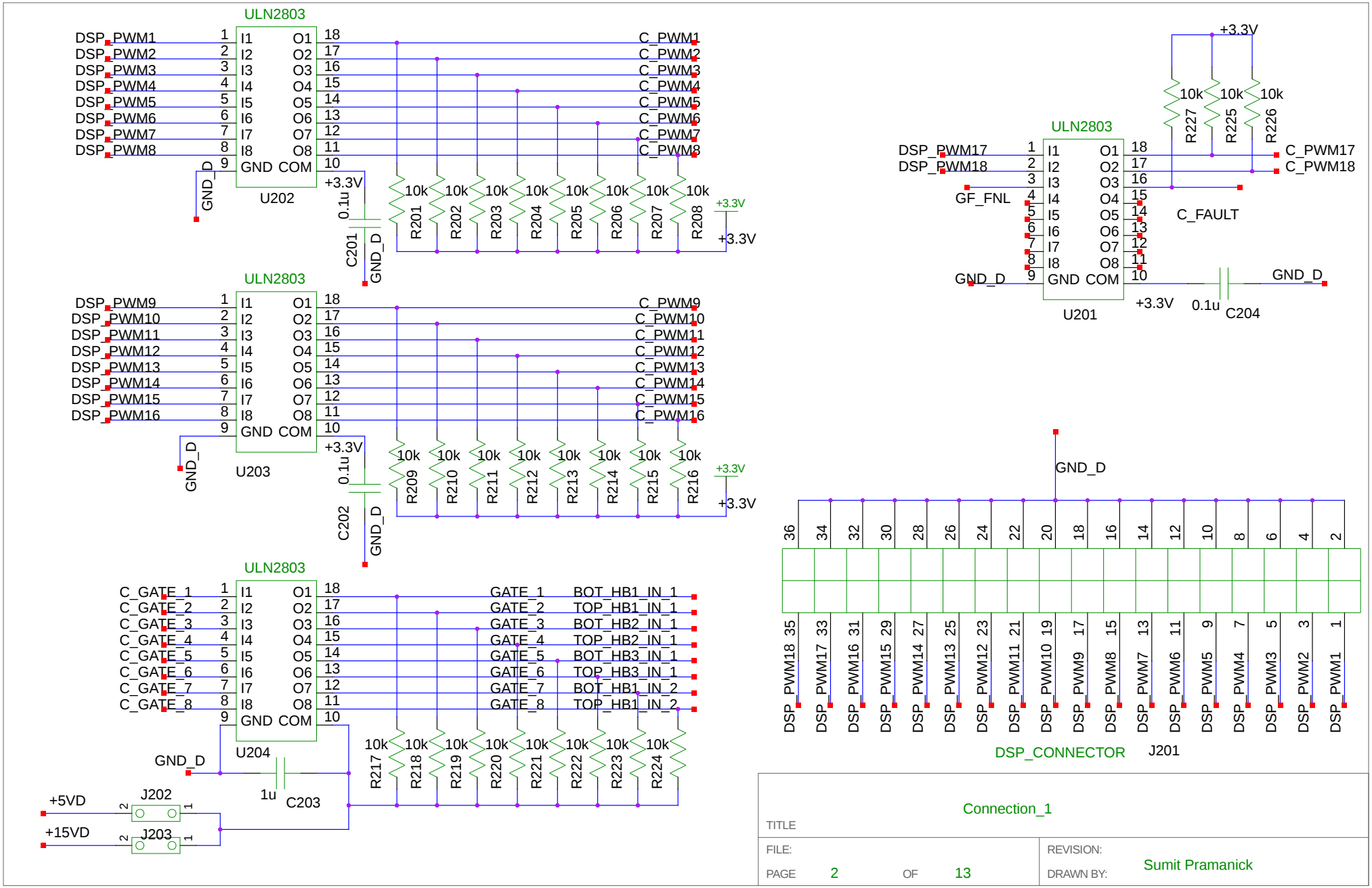
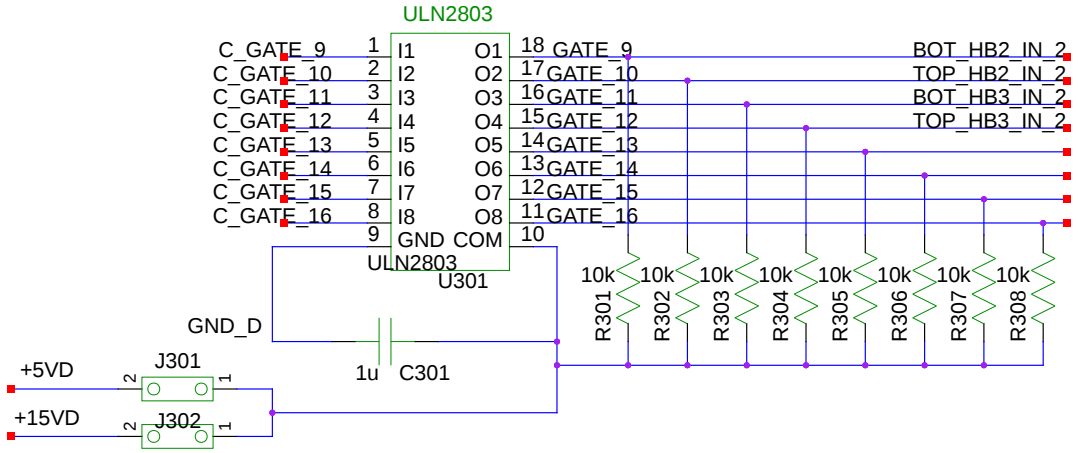
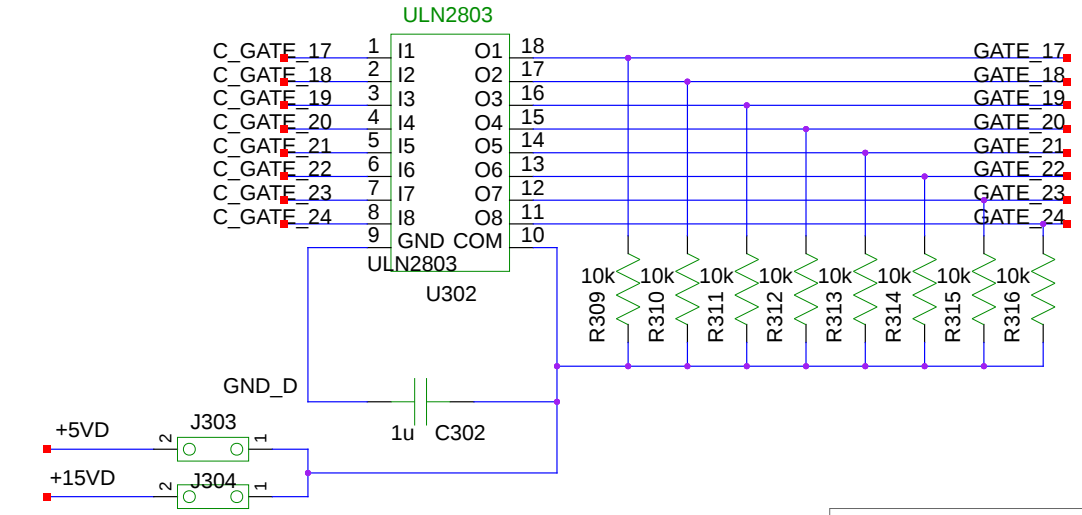
DRAWN BY: Parthasarathy Nayak



TITLE	Connection_1		
FILE:		REVISION:	
PAGE 2	OF 13	DRAWN BY:	Sumit Pramanick





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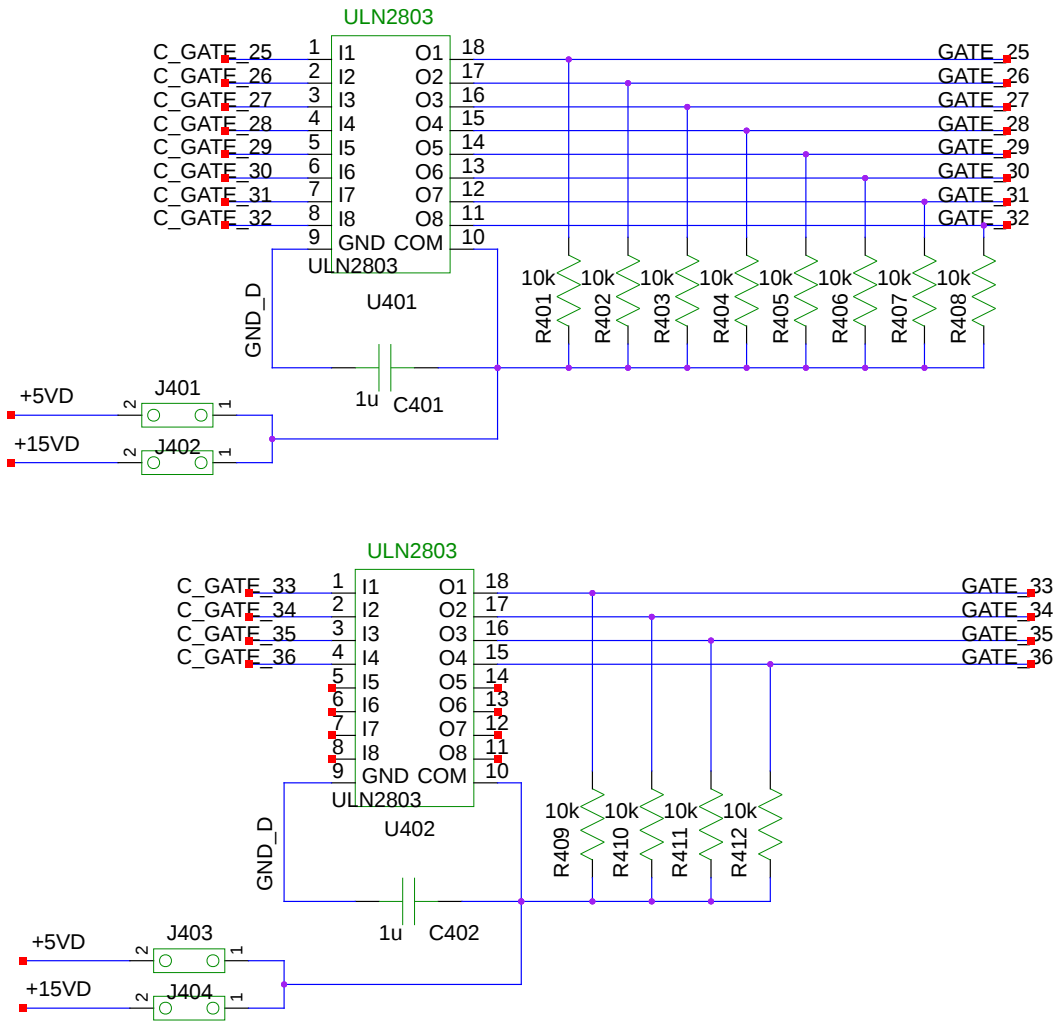
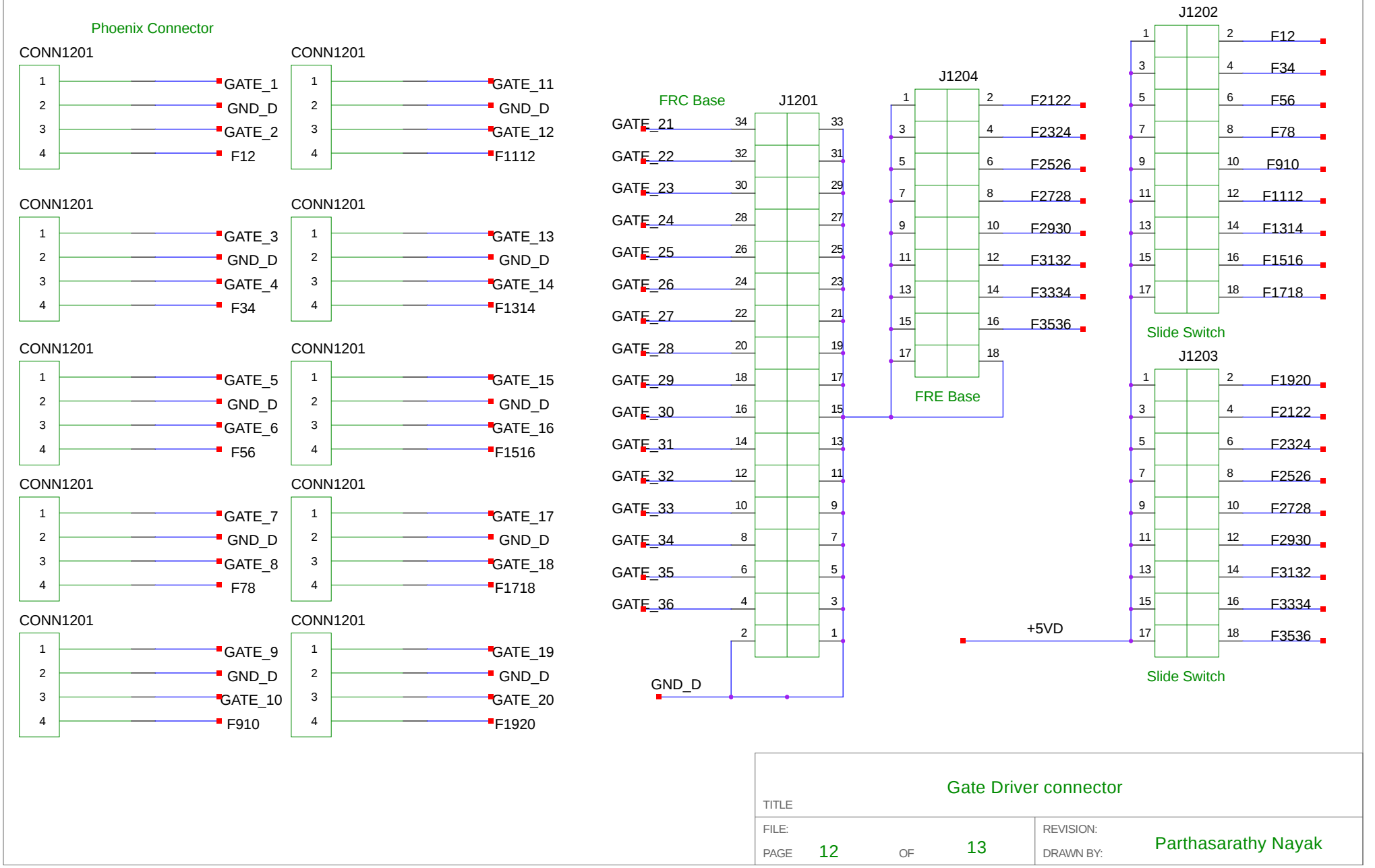
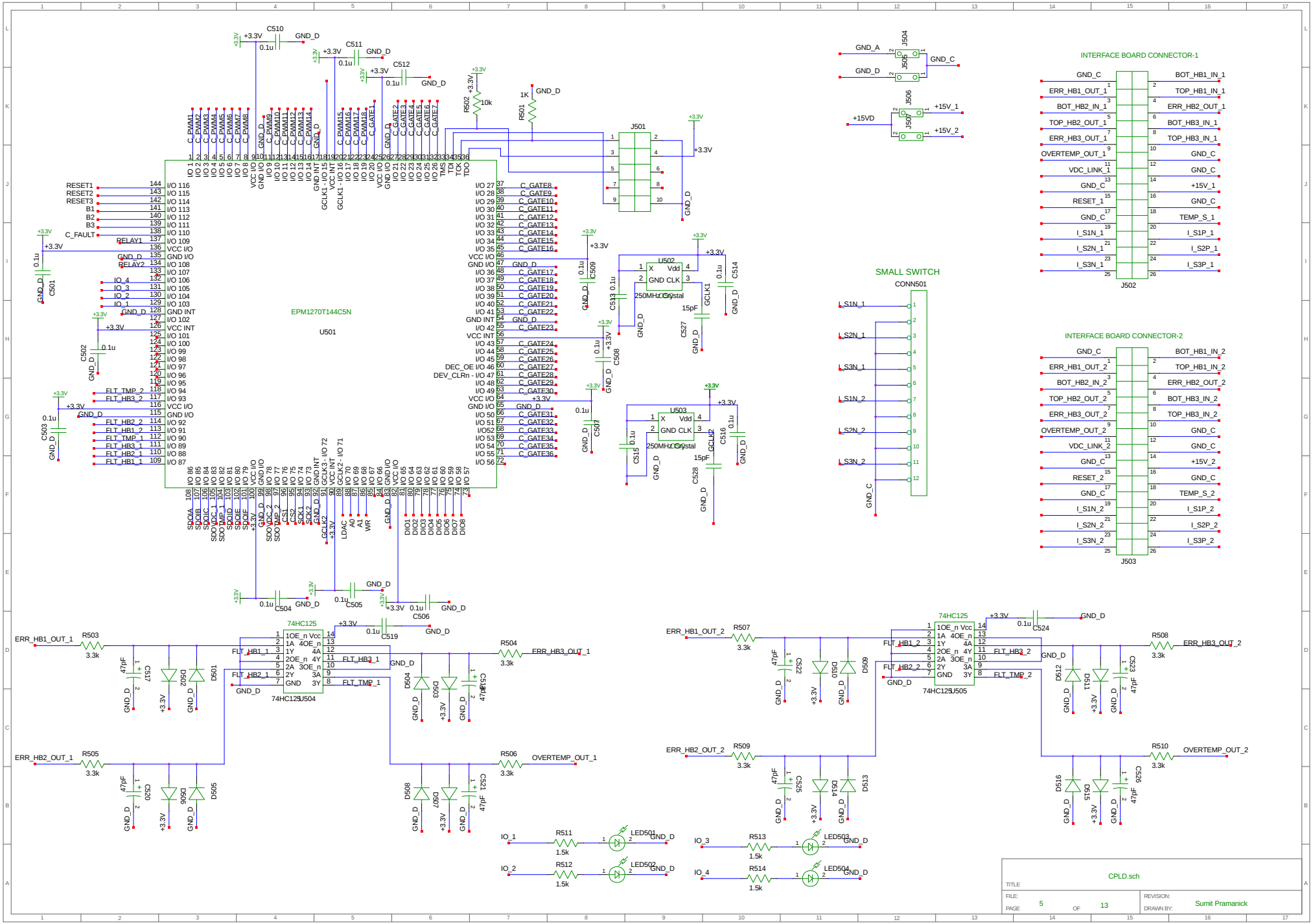
FILE:		REVISION:	
PAGE	3 OF 13	DRAWN BY:	Sumit Pramanick

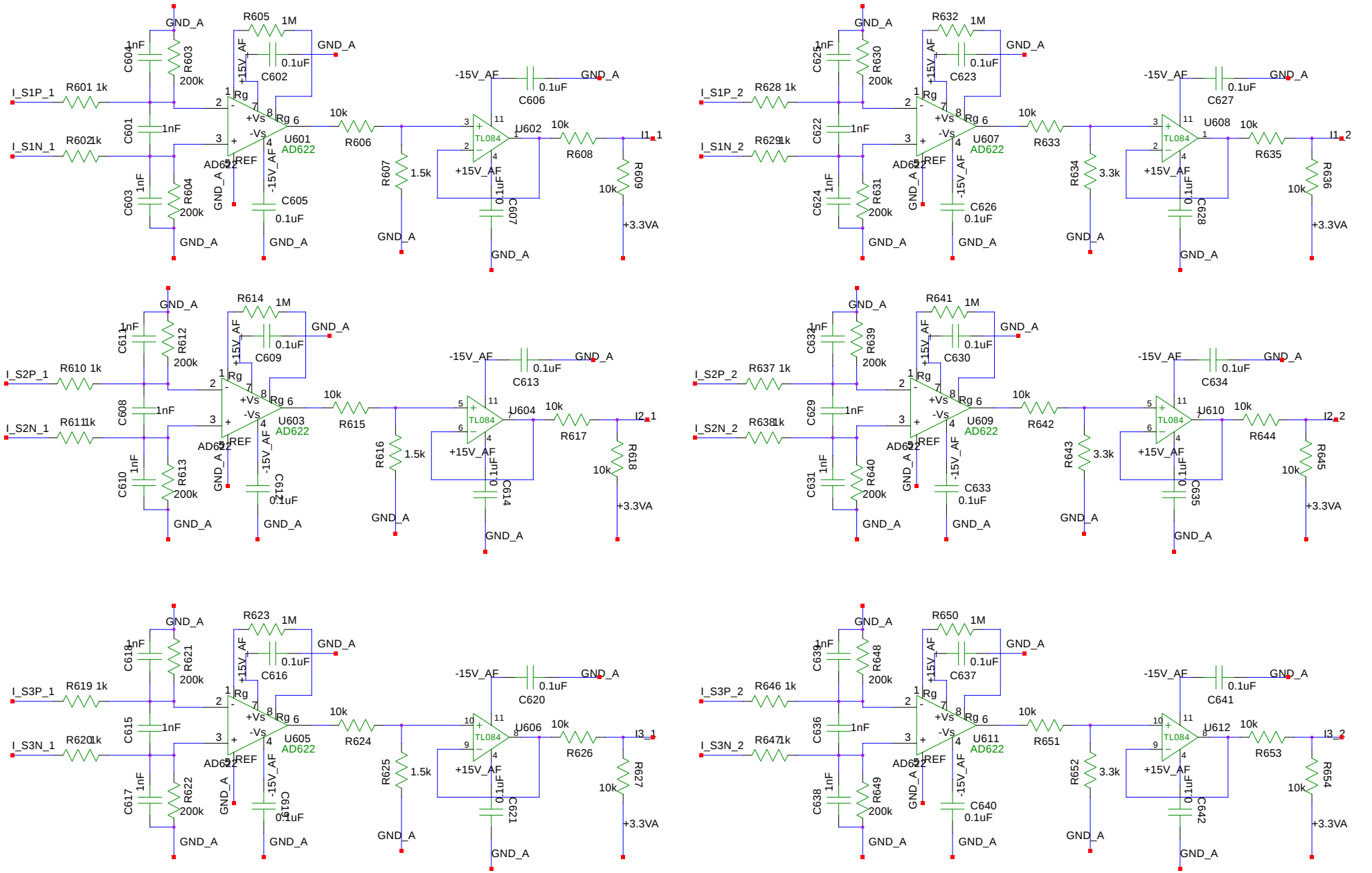


TITLE	connection_3		
FILE:		REVISION:	
PAGE 4	OF 13	DRAWN BY:	Sumit Pramanick



TITLE	Gate Driver connector		
FILE:		REVISION:	
PAGE 12	OF 13	DRAWN BY:	Parthasarathy Nayak


EPM1270T144C5N
U501
INTERFACE BOARD CONNECTOR-1
J502
INTERFACE BOARD CONNECTOR-2
J503
SMALL SWITCH
CONN501
74HC125
U504
74HC125
U505
CPLD.sch
Sumit Pramanick
5
13



TITLE	Current Conditioning		
FILE:		REVISION:	
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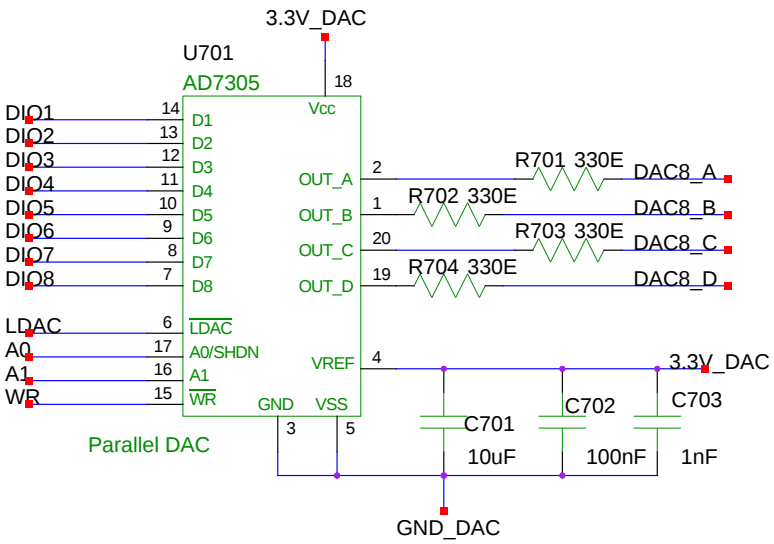

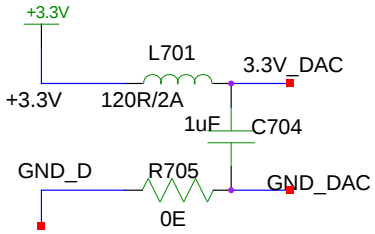

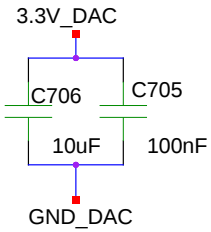

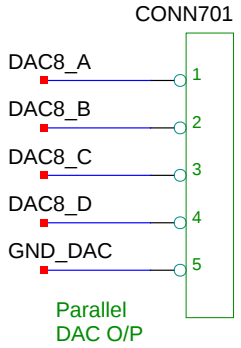

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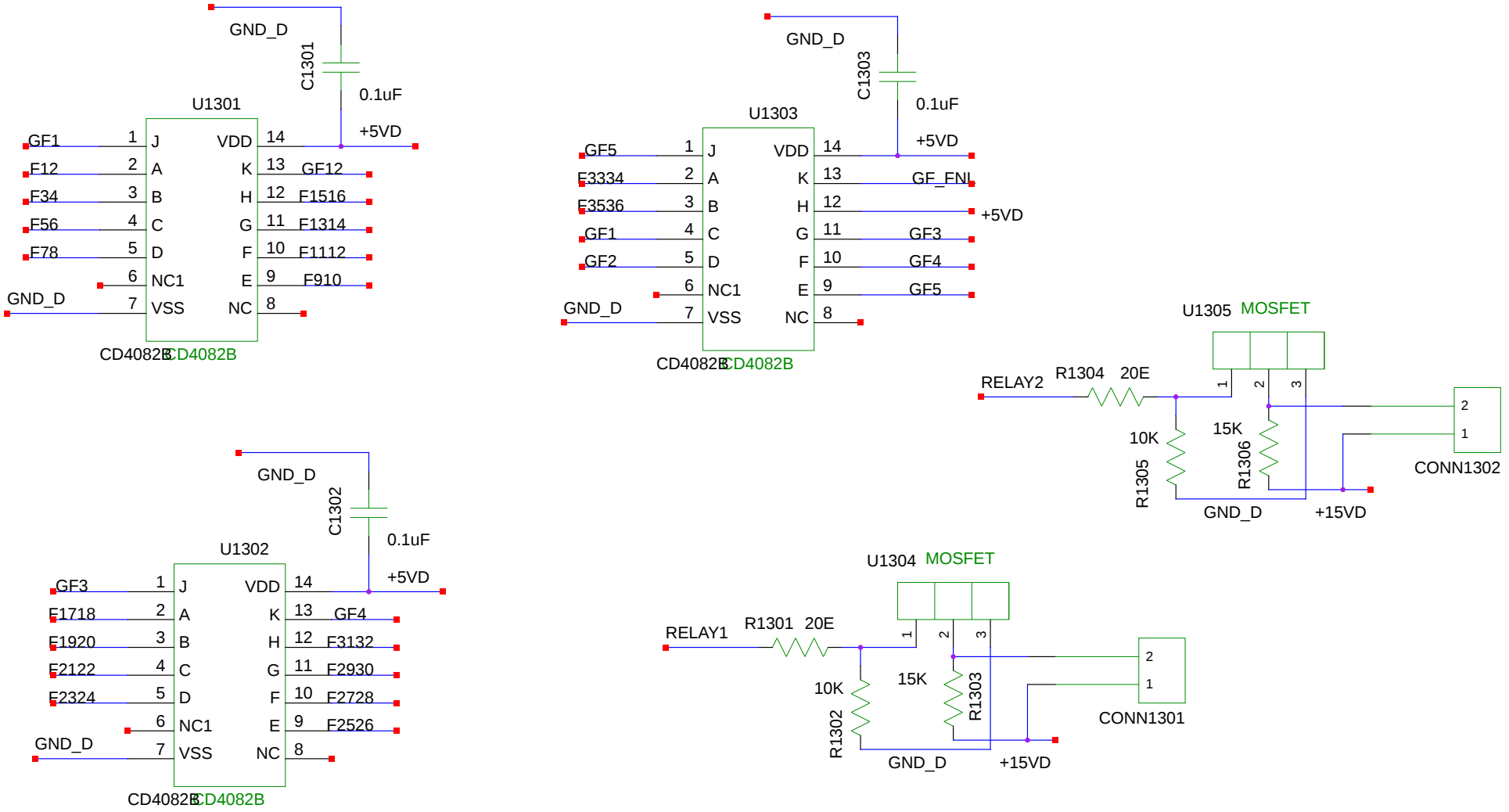
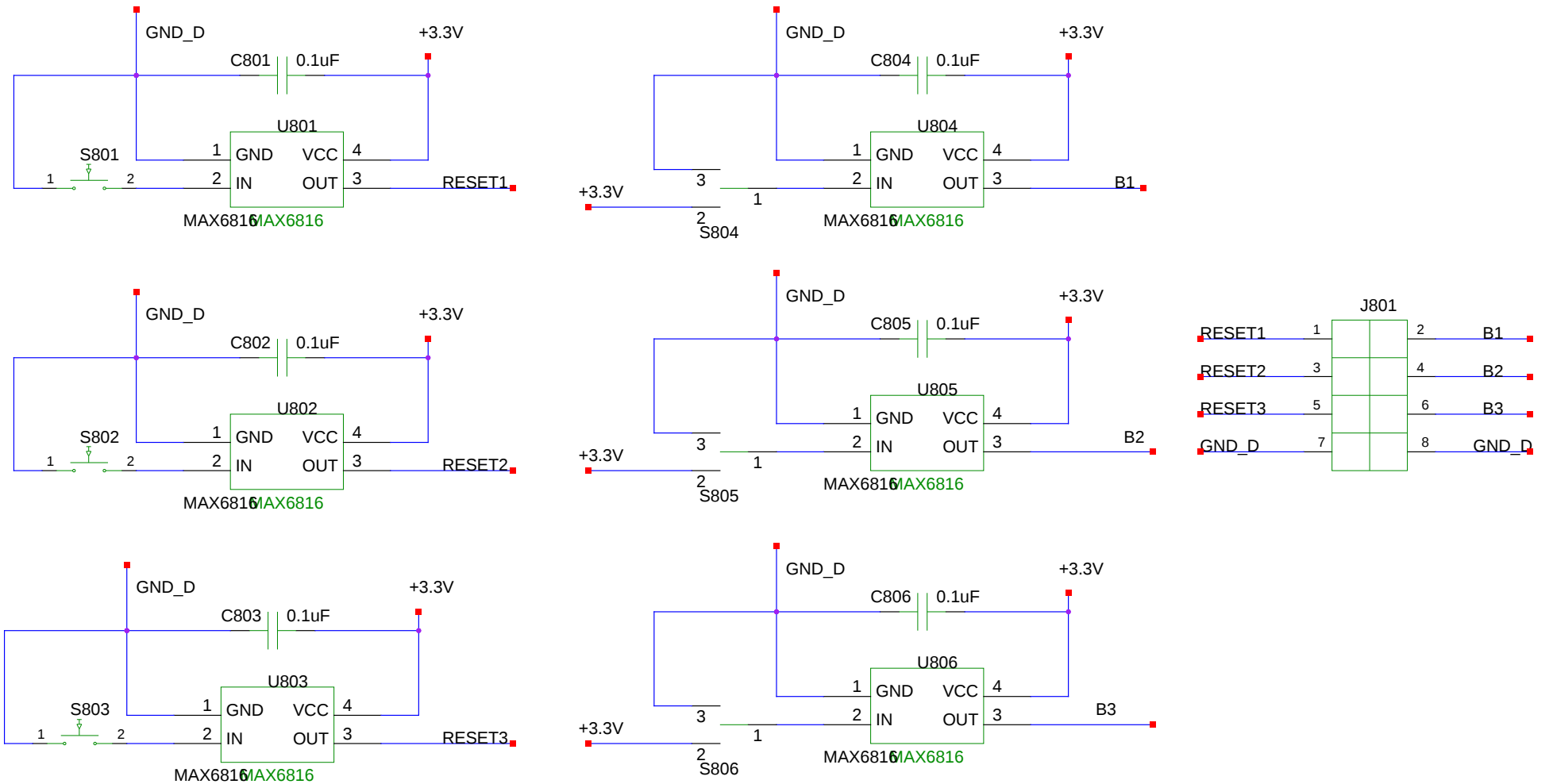
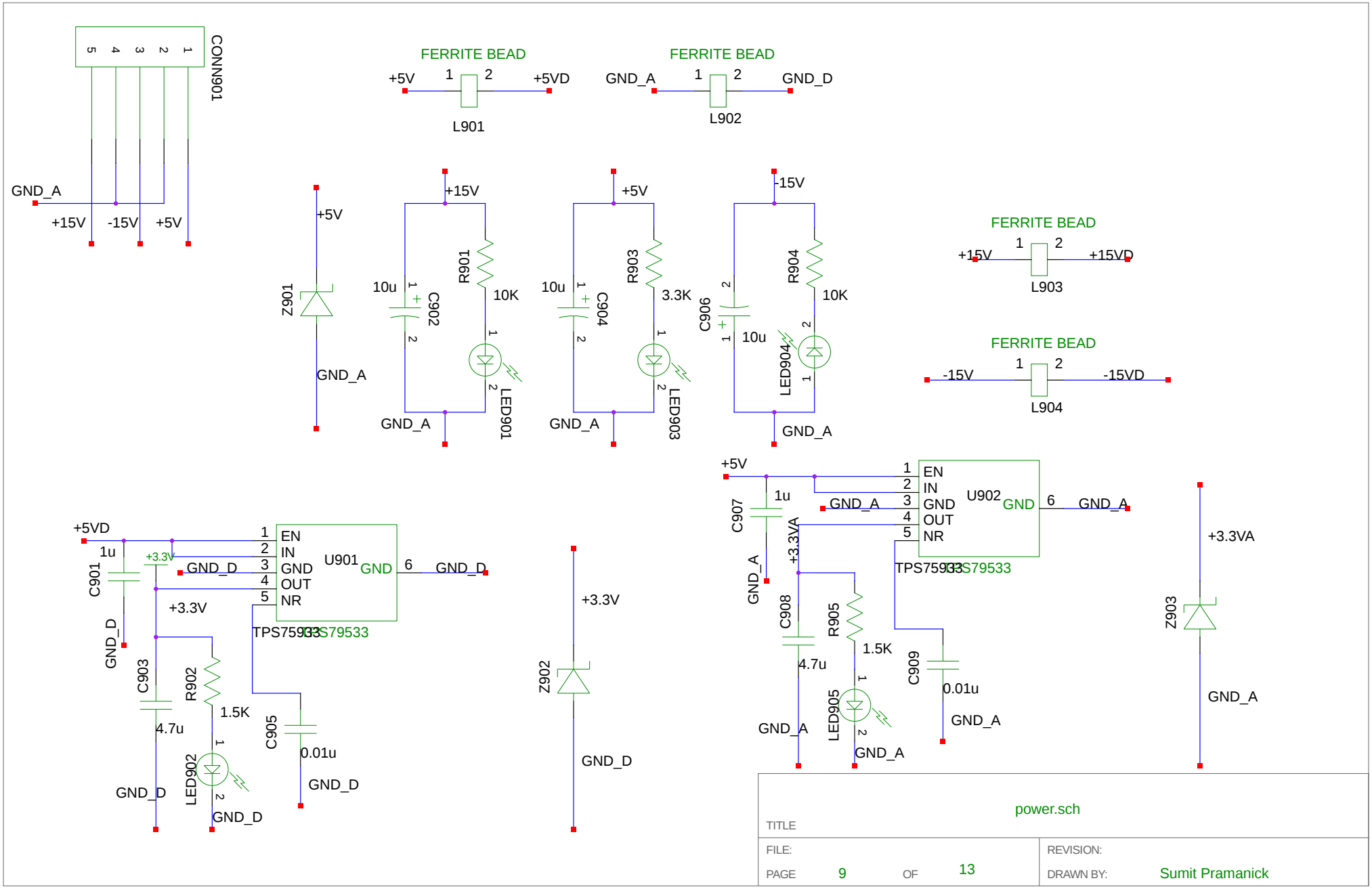
FILE:	PAGE 7	OF 13	REVISION:
			DRAWN BY: Sumit Pramanick



TITLE	Fault		
FILE:		REVISION:	
PAGE 13	OF 13	DRAWN BY:	Parthasarathy Nayak



TITLE	Handshaking		
FILE:		REVISION:	
PAGE 8	OF 13	DRAWN BY:	Parthasarathy Nayak


CONN901
5 4 3 2 1
GND_A
+15V -15V +5V
FERRITE BEAD
+5V 1 2 +5VD
L901
FERRITE BEAD
GND_A 1 2 GND_D
L902
+5V
Z901
GND_A
+15V
10u
C902
R901
10K
LED901
GND_A
+5V
10u
C904
R903
3.3K
LED903
GND_A
-15V
C906
10u
R904
10K
LED904
GND_A
FERRITE BEAD
+15V 1 2 +15VD
L903
FERRITE BEAD
-15V 1 2 -15VD
L904
+5VD
1u
C901
GND_D
+3.3V
GND_D
U901
EN
IN
GND
OUT
NR
GND
6
GND_D
TPS75933
C903
4.7u
R902
1.5K
LED902
GND_D
C905
0.01u
GND_D
+3.3V
Z902
GND_D
+5V
1u
C907
GND_A
+3.3VA
U902
EN
IN
GND
OUT
NR
GND
6
GND_A
TPS75933
C908
4.7u
R905
1.5K
LED905
GND_A
C909
0.01u
GND_A
+3.3VA
Z903
GND_A
TITLE
power.sch
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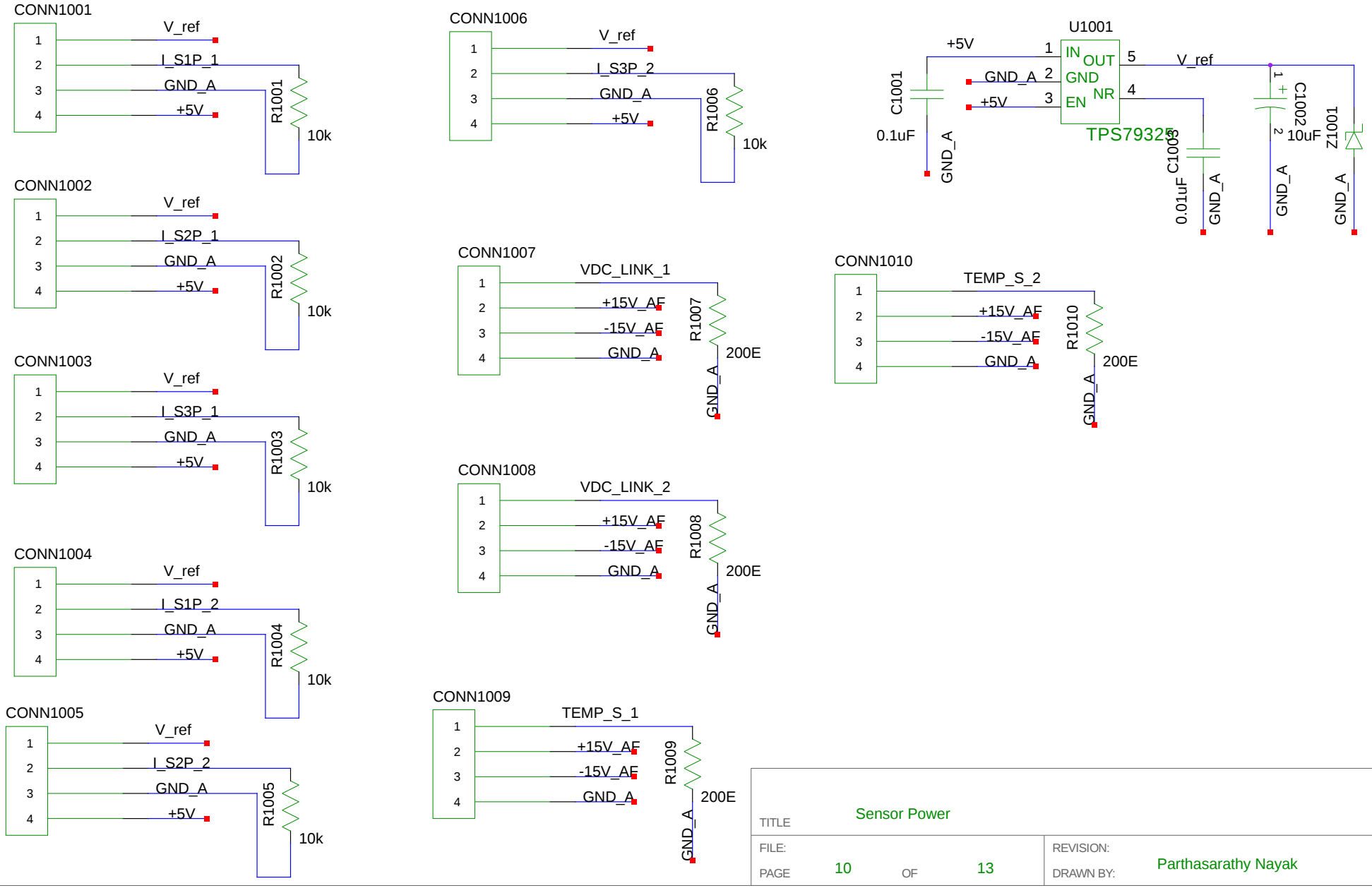
CONN1001
1
2
3
4
V_ref
I_S1P_1
GND_A
+5V
R1001
10k
CONN1002
V_ref
I_S2P_1
GND_A
+5V
R1002
10k
CONN1003
V_ref
I_S3P_1
GND_A
+5V
R1003
10k
CONN1004
V_ref
I_S1P_2
GND_A
+5V
R1004
10k
CONN1005
V_ref
I_S2P_2
GND_A
+5V
R1005
10k
CONN1006
V_ref
I_S3P_2
GND_A
+5V
R1006
10k
CONN1007
VDC_LINK_1
+15V_AF
-15V_AF
GND_A
R1007
200E
GND_A
CONN1008
VDC_LINK_2
+15V_AF
-15V_AF
GND_A
R1008
200E
GND_A
CONN1009
TEMP_S_1
+15V_AF
-15V_AF
GND_A
R1009
200E
GND_A
U1001
+5V
GND_A
+5V
IN
GND
EN
OUT
NR
V_ref
TPS79325
C1001
0.1uF
GND_A
C1003
0.01uF
GND_A
C1002
10uF
GND_A
Z1001
GND_A
CONN1010
TEMP_S_2
+15V_AF
-15V_AF
GND_A
R1010
200E
GND_A
TITLE
Sensor Power
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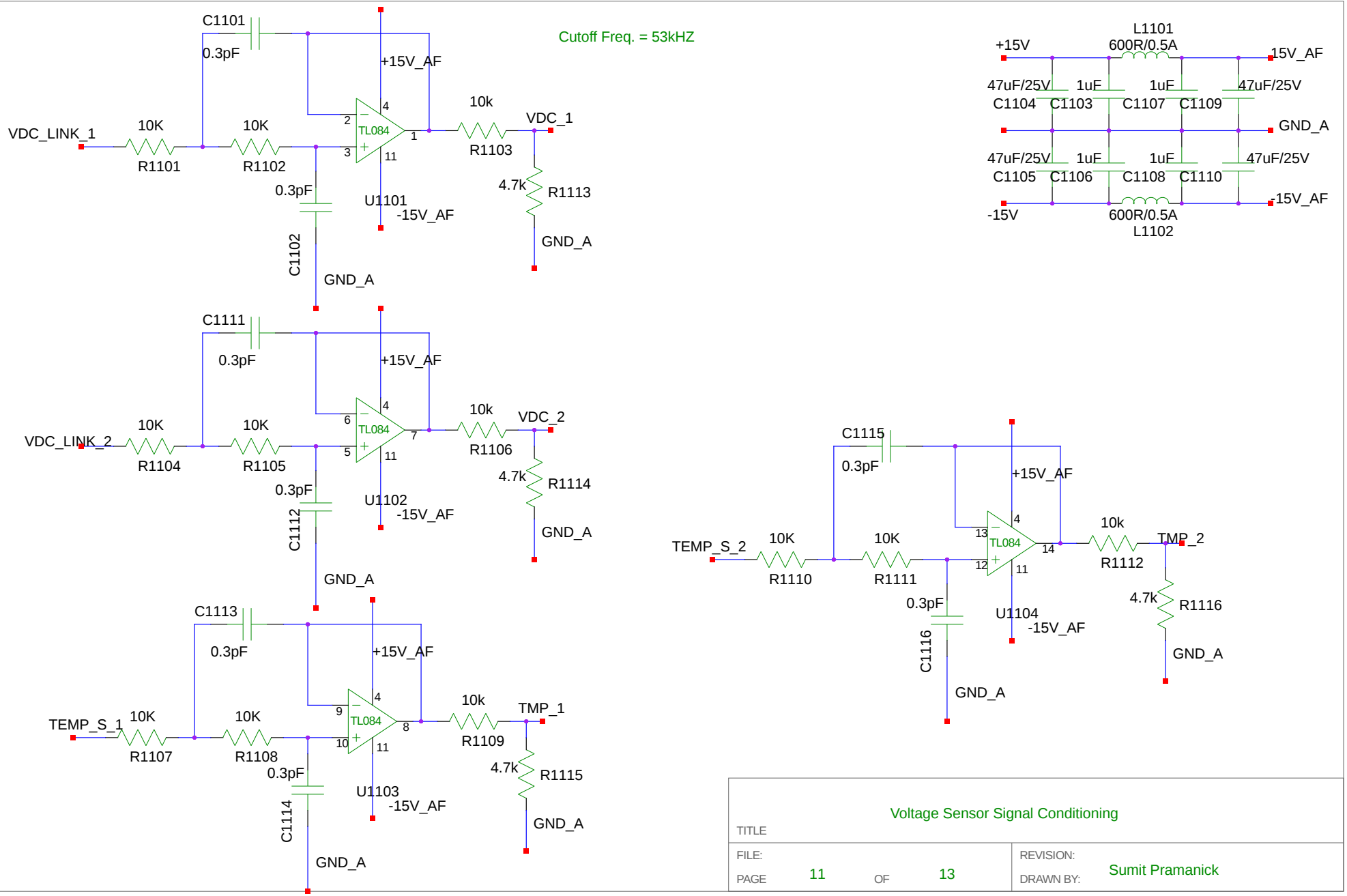
Parthasarathy Nayak



Voltage Sensor Signal Conditioning

TITLE

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