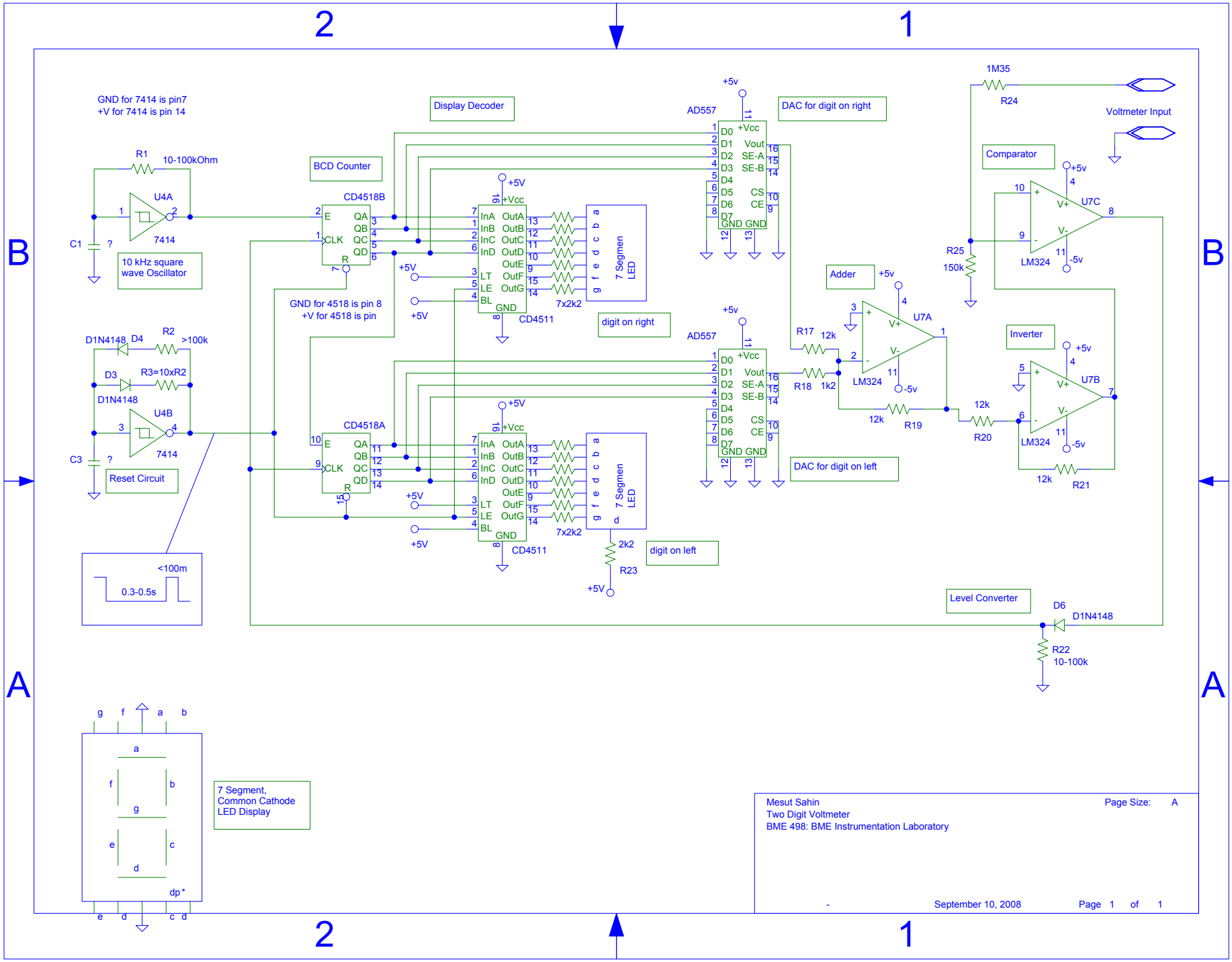
GND for 7414 is pin7
+V for 7414 is pin 14
R1
10-100kOhm
U4A
7414
C1
10 kHz square wave Oscillator
BCD Counter
CD4518B
E
CLK
QA
QB
QC
QD
R
Display Decoder
CD4511
InA
InB
InC
InD
LT
LE
BL
OutA
OutB
OutC
OutD
OutE
OutF
OutG
GND
+Vcc
7x2k2
7 Segmen LED
digit on right
GND for 4518 is pin 8
+V for 4518 is pin
D1N4148
D4
R2
>100k
D3
R3=10xR2
D1N4148
U4B
7414
C3
Reset Circuit
CD4518A
digit on left
2k2
R23
<100m
0.3-0.5s
AD557
D0
D1
D2
D3
D4
D5
D6
D7
Vout
SE-A
SE-B
CS
CE
DAC for digit on right
DAC for digit on left
R17
12k
R18
1k2
Adder
U7A
LM324
R19
12k
R20
12k
Inverter
U7B
R21
12k
1M35
R24
Voltmeter Input
Comparator
U7C
R25
150k
Level Converter
D6
D1N4148
R22
10-100k
7 Segment, Common Cathode LED Display
dp*
Mesut Sahin
Two Digit Voltmeter
BME 498: BME Instrumentation Laboratory
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