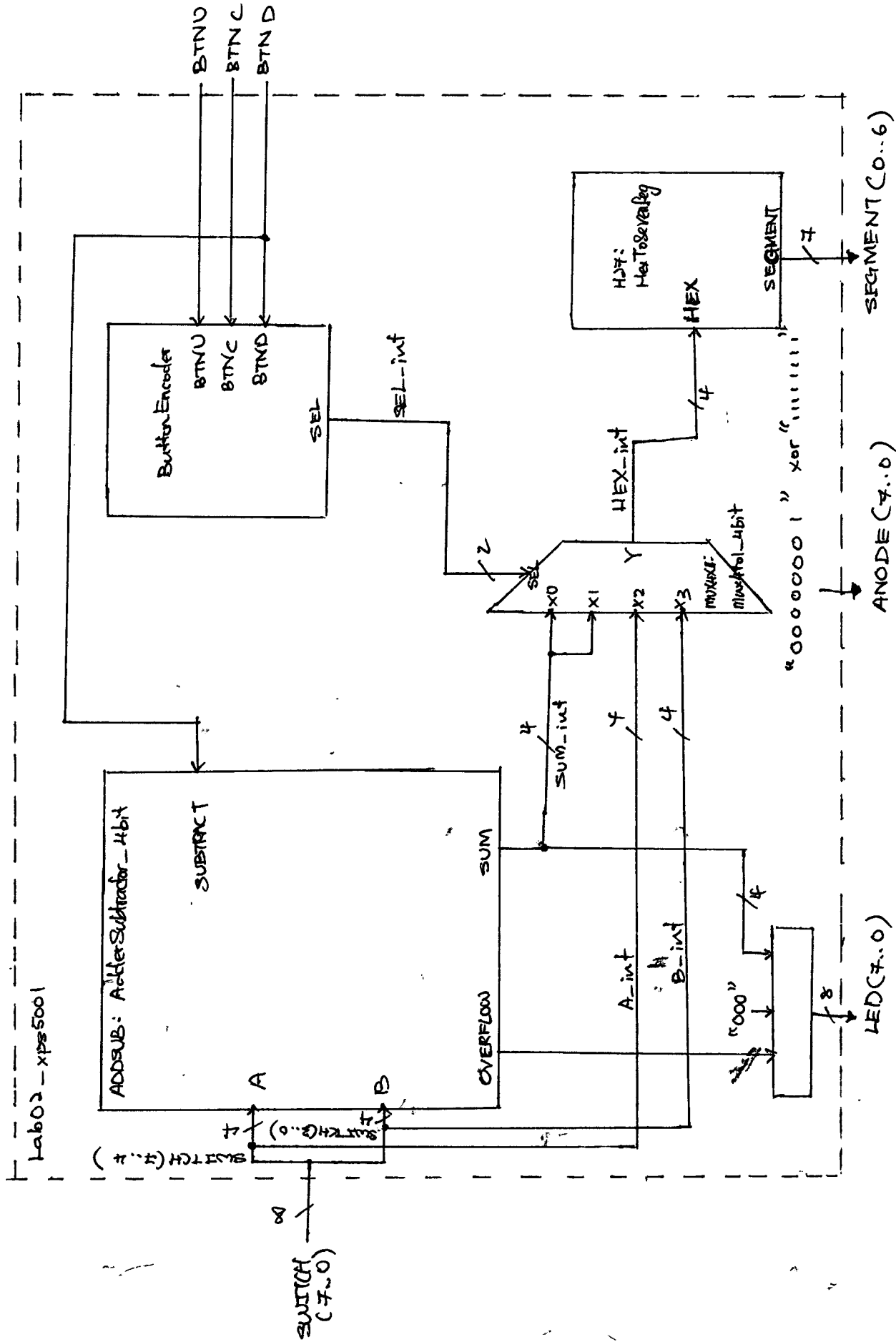By: Saw Xue Zheng

Date: 9/4/2016

Lab02_xps5001

BTN U
BTN C
BTN D

Button Encoder

BTNU
BTNC
BTND

SEL

SEL_int

ADDSUB: AdderSubtractor_4bit

SUBTRACT

A

B

SUM

OVERFLOW

SUM_int
A_int
B_int

SWITCH(7..0)

SWITCH(7..4)
SWITCH(3..0)

SWITCH(7..0)

8

4
4

"000"

8

LED(7..0)

MUX4X1: mux4to1_4bit

SEL

x0
x1
x2
x3

Y

2

4

"00000001" xor "........."

ANODE(4..0)

HEX_int

4

H3F: HexToSevenSeg

HEX

SEGMENT

7

SEGMENT(0..6)