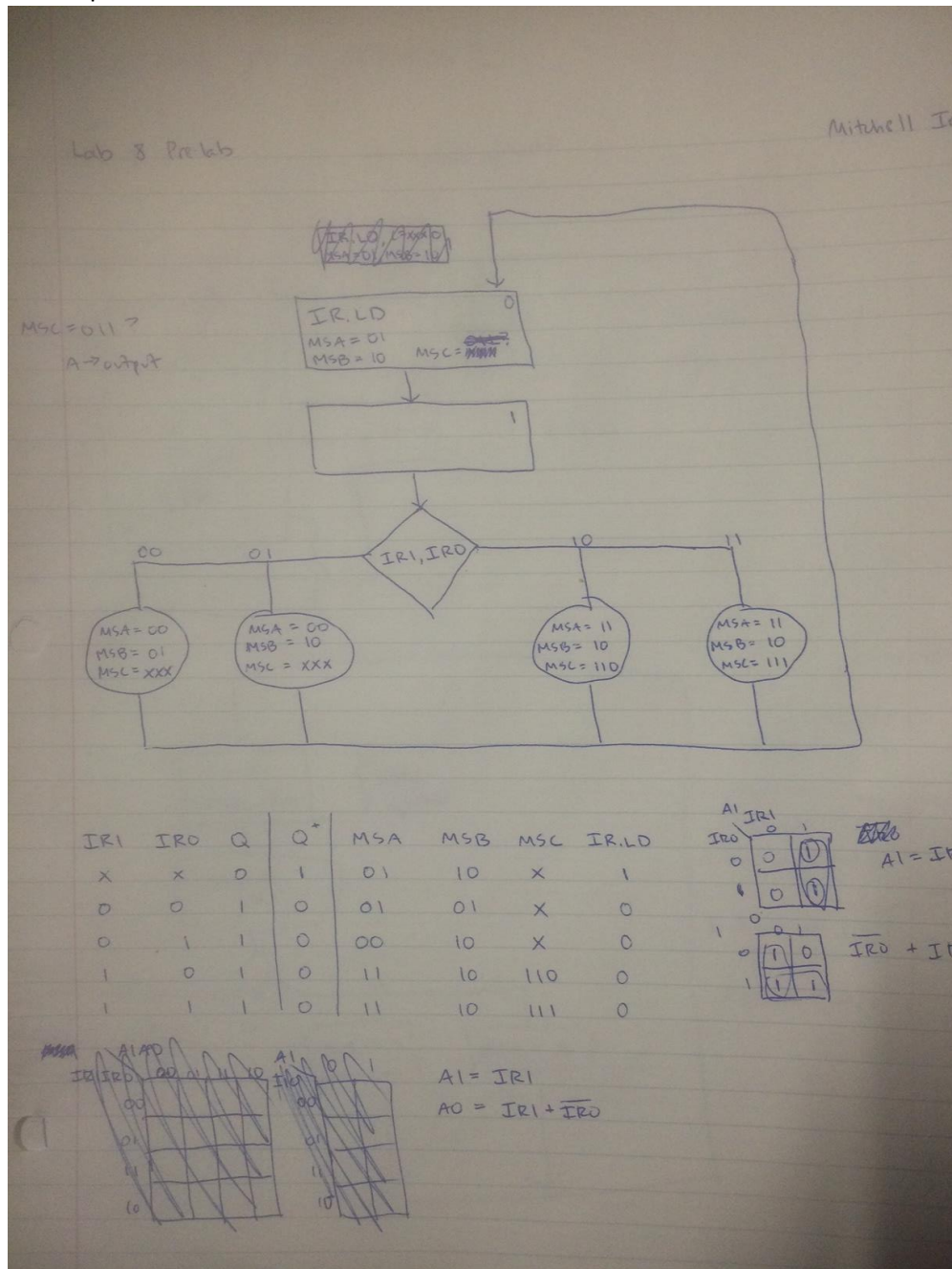


Lab 8 Summary
 Irvin, Mitchell
 Section 7441
 4/8/2016

Prelab question 1:



AI Q

IR \ Q	0	1
00	0	0
01	0	0
11	0	1
10	0	1

$$A1 = Q \cdot IR1$$

A0

IR \ Q	0	1
00	1	1
01	1	0
11	1	1
10	1	1

$$A0 = \overline{IR0} + \overline{Q} + IR1$$

B1

IR \ Q	0	1
00	1	0
01	1	1
11	1	1
10	1	1

$$B1 = \overline{Q} + IR0 + IR1$$

IR

Q	0	1
00	0	1
01	0	0
11	0	0
10	0	0

$$B0 = Q \cdot \overline{IR0} \cdot \overline{IR1}$$

LO

IR \ Q	0	1
00	0	0
01	0	0
11	0	1
10	0	0

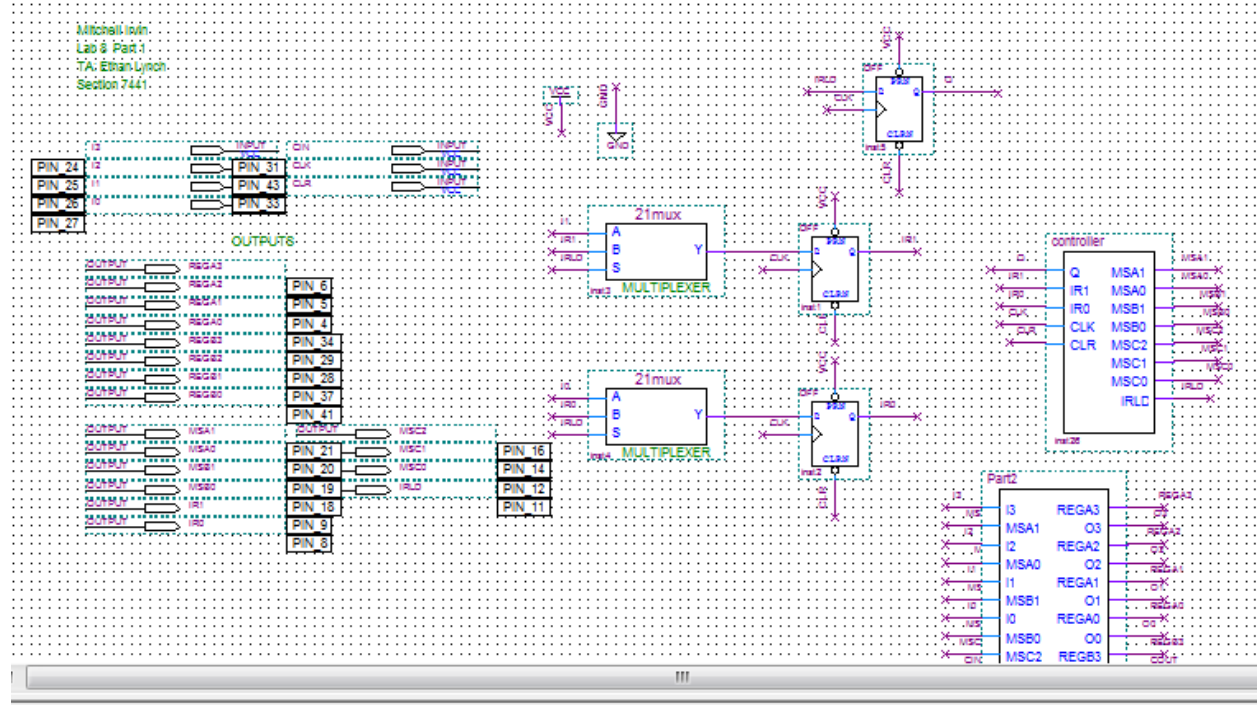
$$C2 = 1$$

$$C1 = 1$$

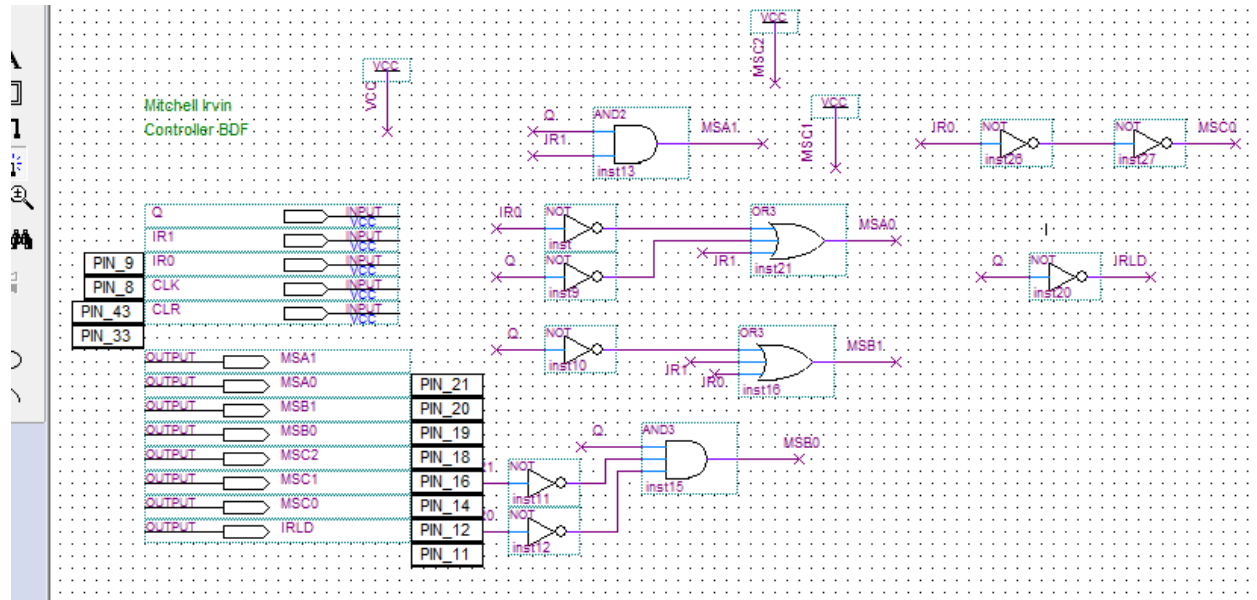
$$C0 = Q \cdot IR1 \cdot IR0$$

$$IR.LD = \overline{Q}$$

BDF of controller/ALU



BDF of controller



VWF output

