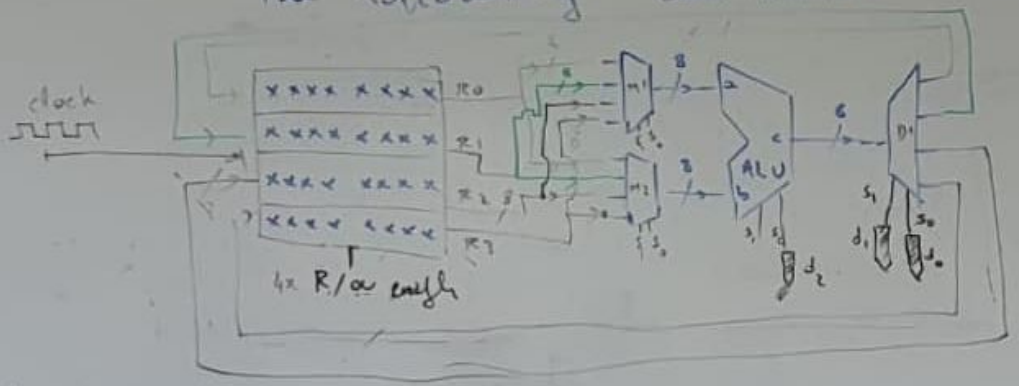
Assignment 1

By using the software Logisim-Evolution

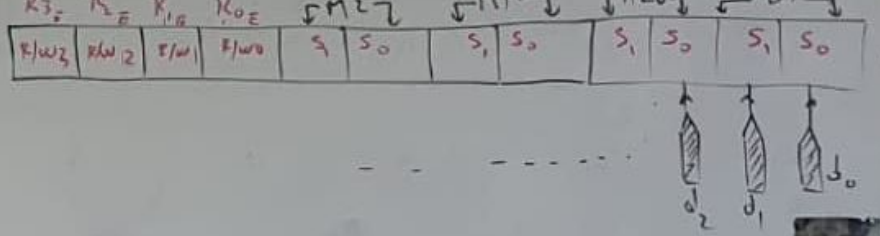
The following Controlled ALU

P = 0.002317

NE 555



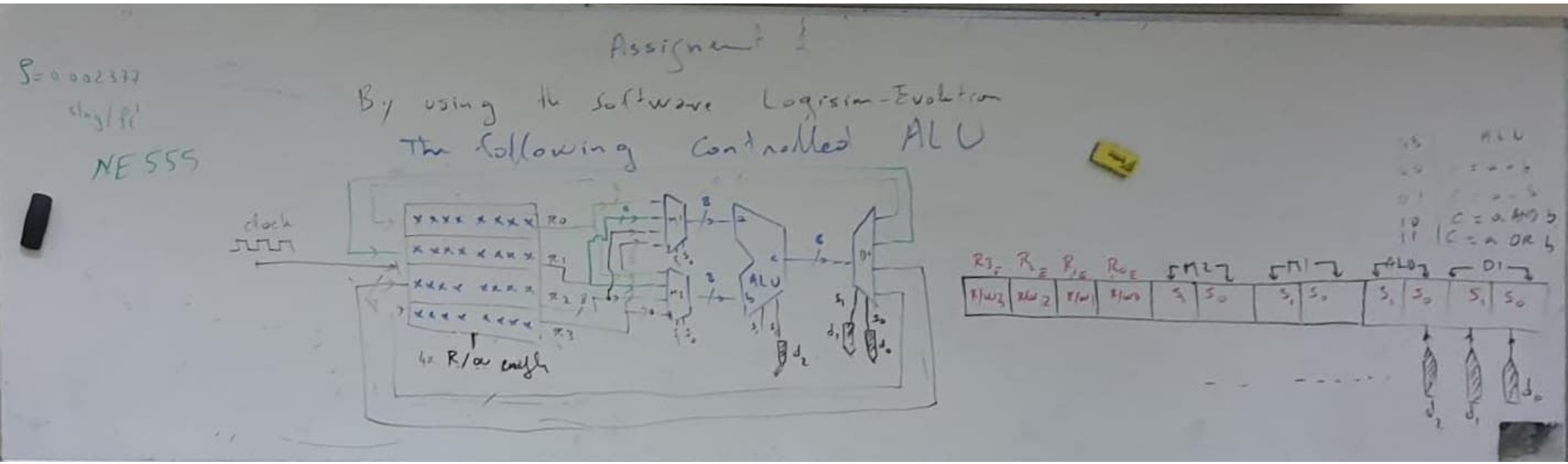
S_1 S_0	ALU
0 0	$c = a + b$
0 1	$c = a - b$
1 0	$c = a$ AND b
1 1	$c = a$ OR b



Assignment 1

By using the software Logisim-Evolution

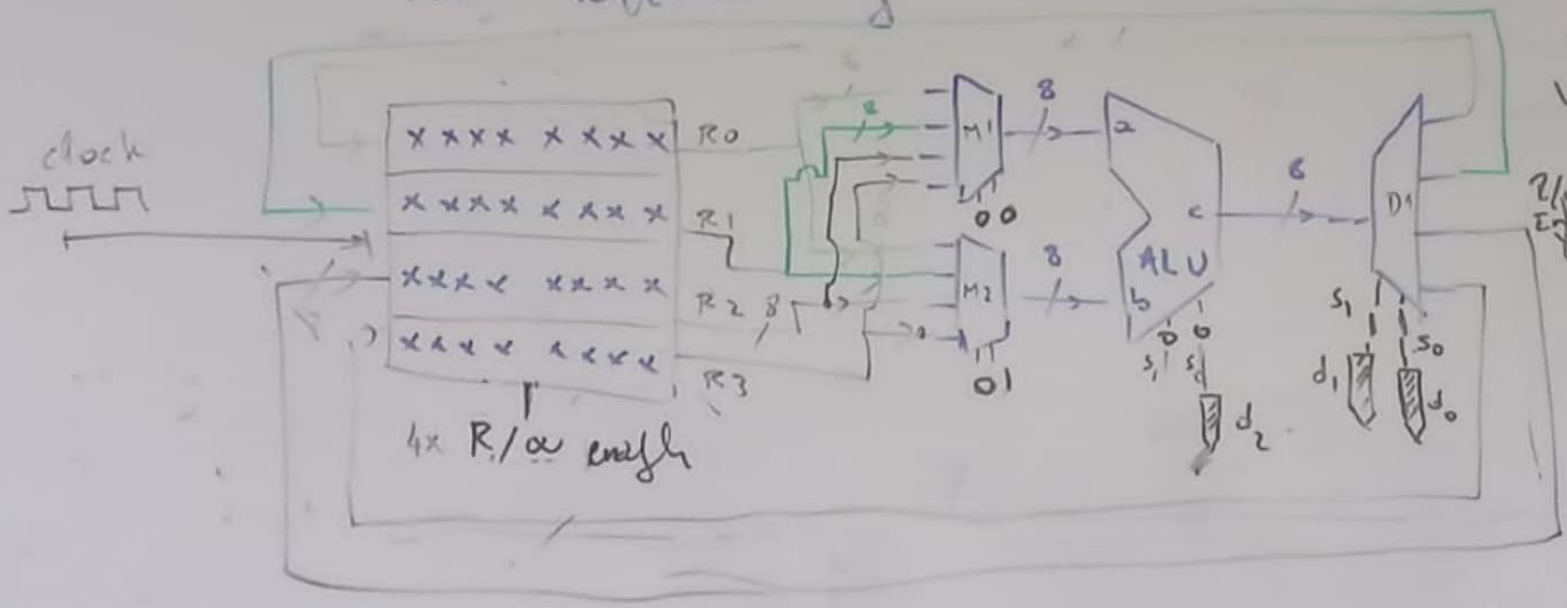
The following Controlled ALU



Assignment 1

By using the software Logisim-Evolution

The following Controlled ALU



Evolution

ALU

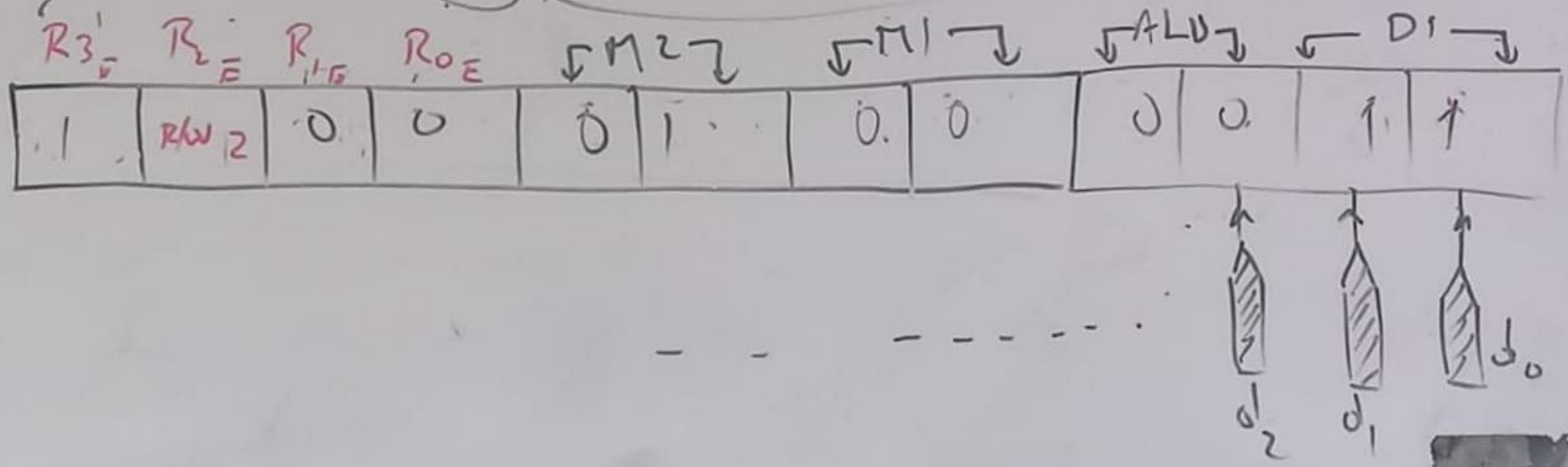
Add R_0, R_1, R_3

$R_0 + R_1 \rightarrow R_3$

x 0 1 0 1

W = 1

$S_1 S_0$	ALU
0 0	$c = a + b$
0 1	$C = a - b$
1 0	$C = a$ AND b
1 1	$C = a$ OR b



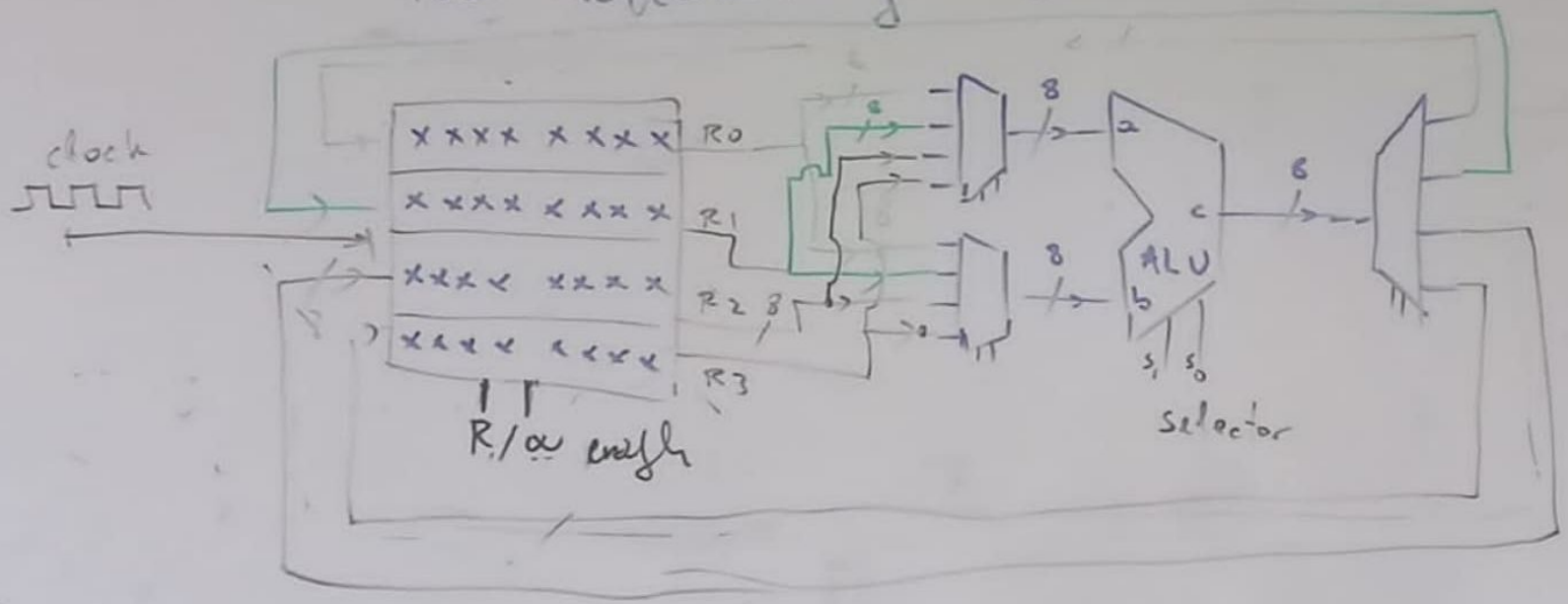
377

E555

Assignment 1

By using the software Logisim-Evolution

The following Controlled ALU



Assignment 1

$\rho = 0.002377$ slug/ft³

NE555

By using the software Logisim-Evolution

The following controlled ALU