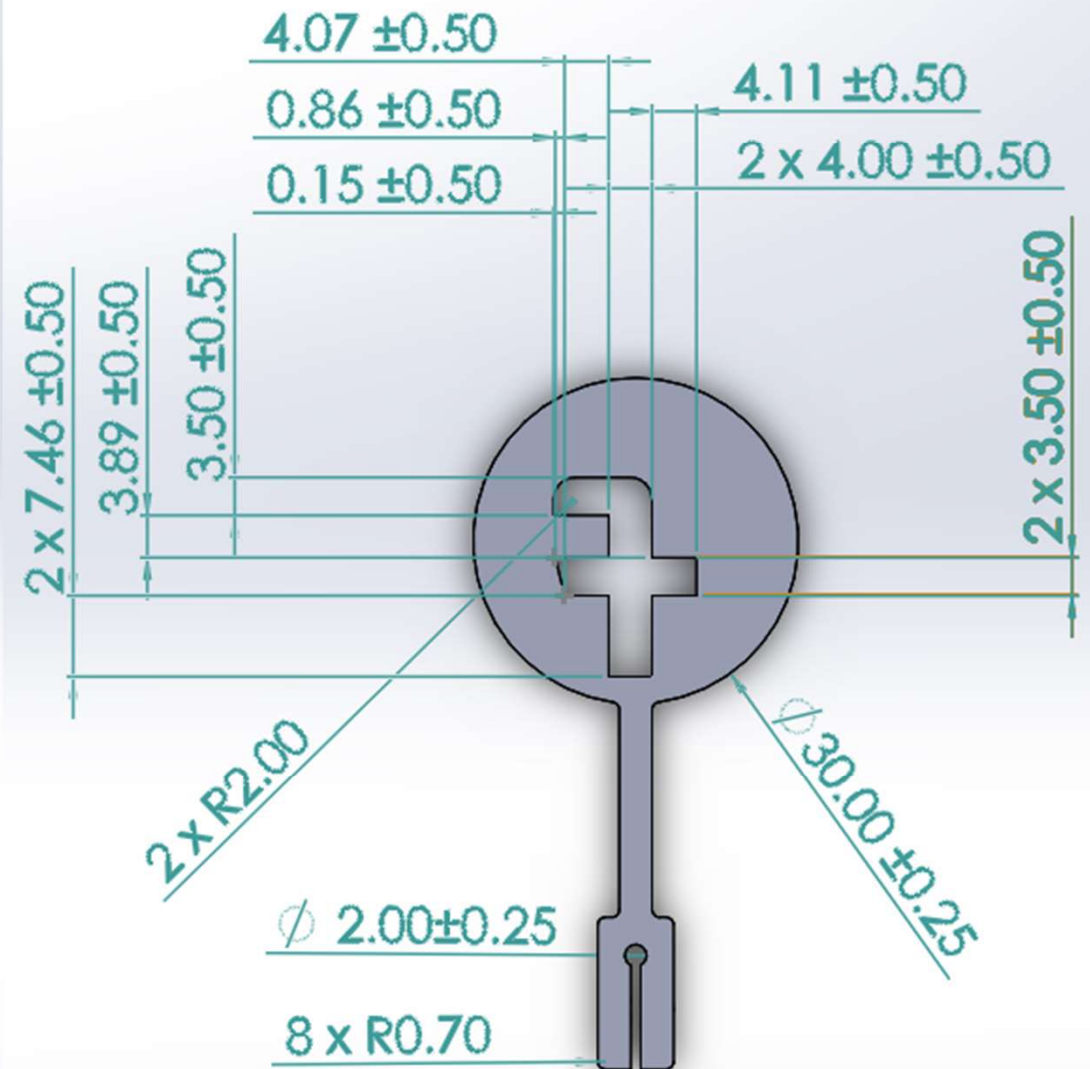
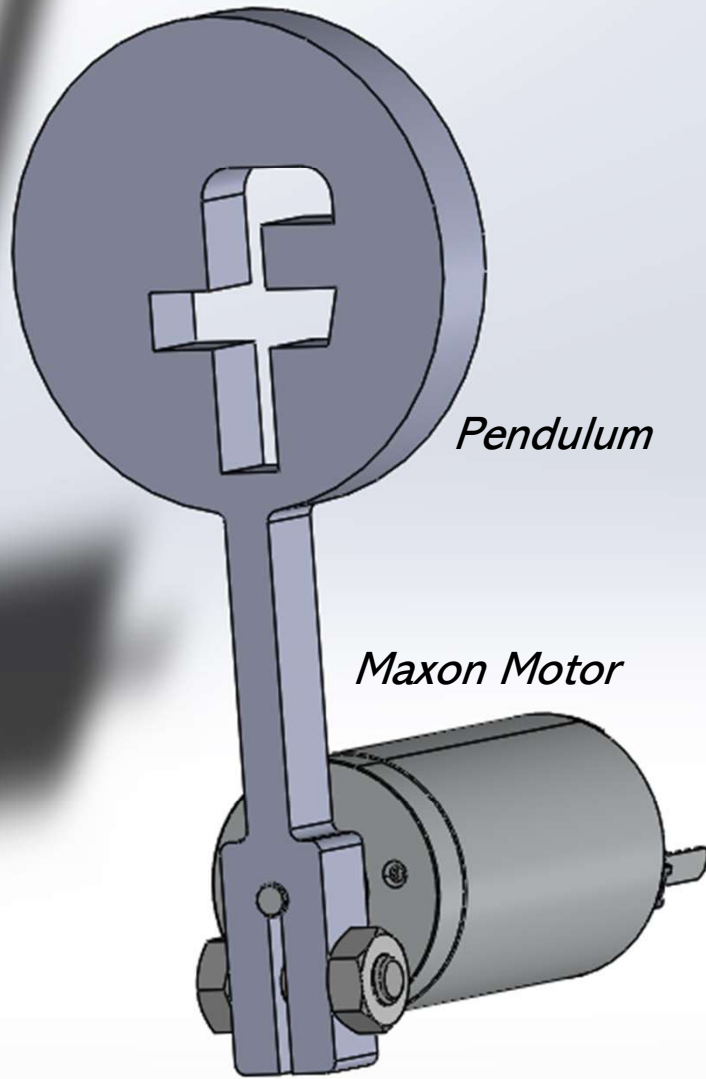


# Mini Project Slide Deck

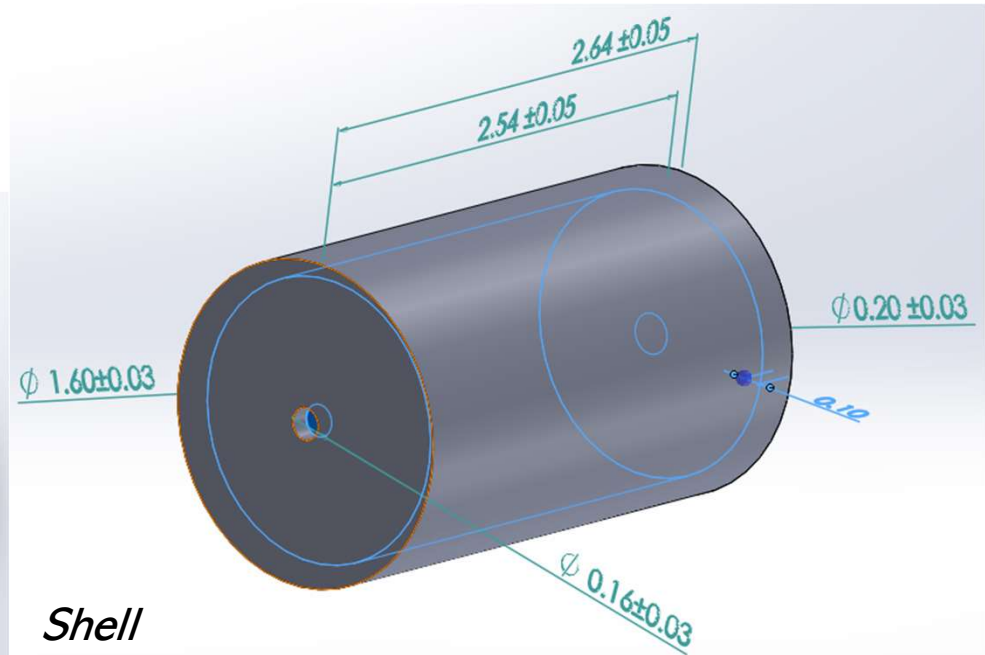
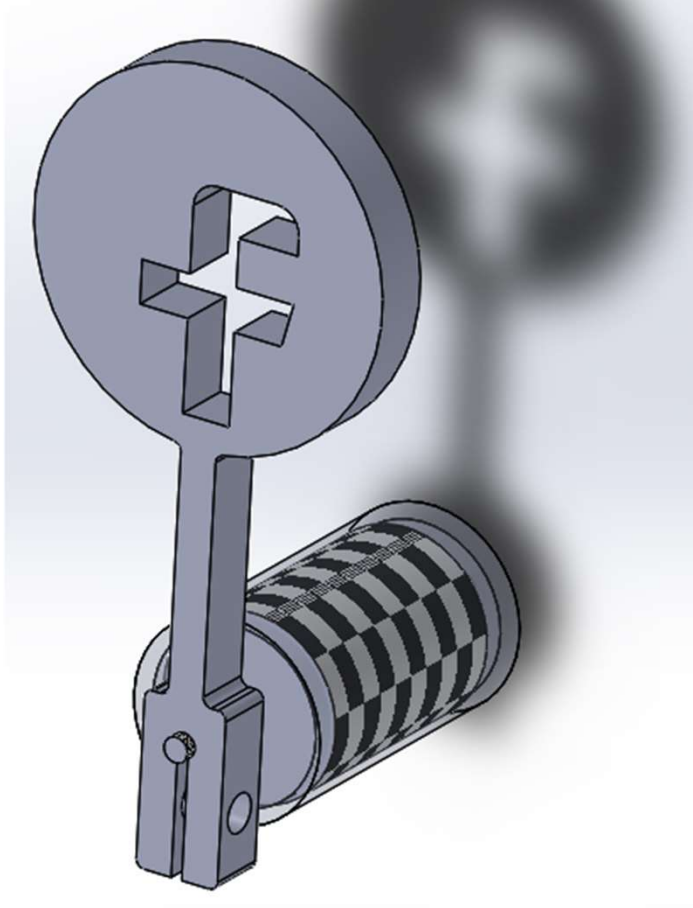
*ELEC 391: Electrical Engineering Design Studio II*

Idil Bil

# SolidWorks Assembly

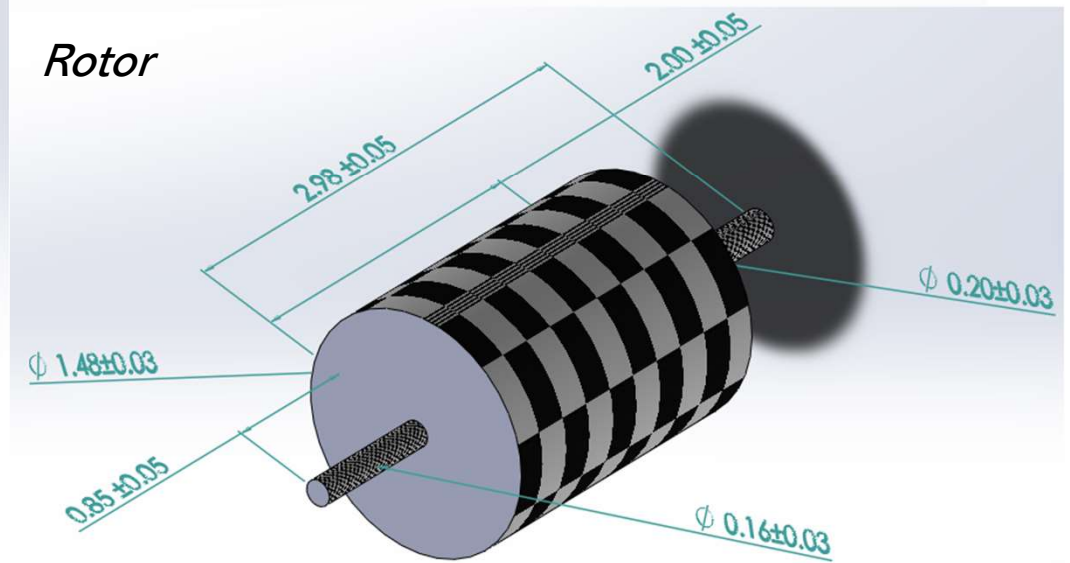


# SolidWorks Assembly with a Simple Motor Model

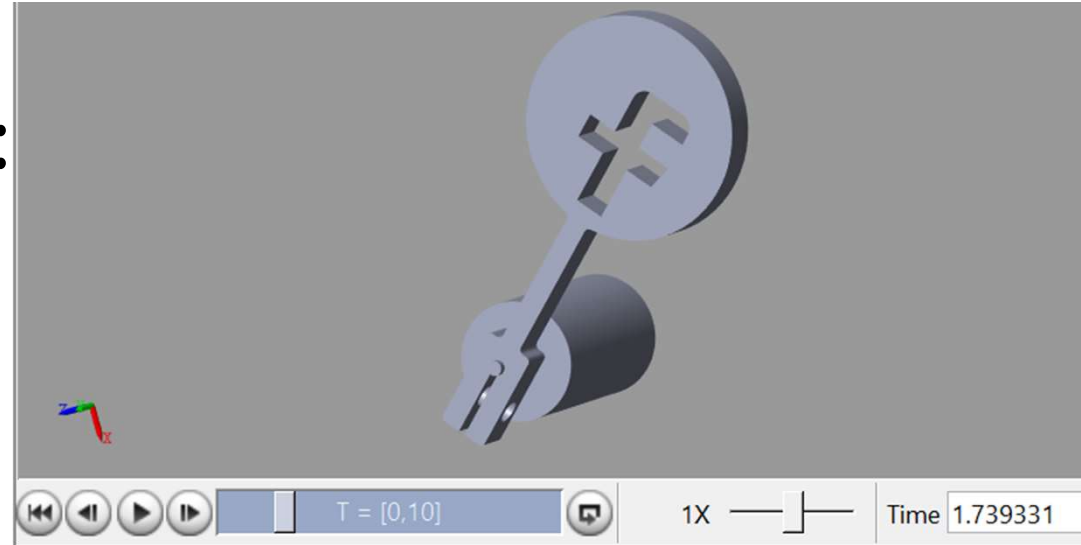
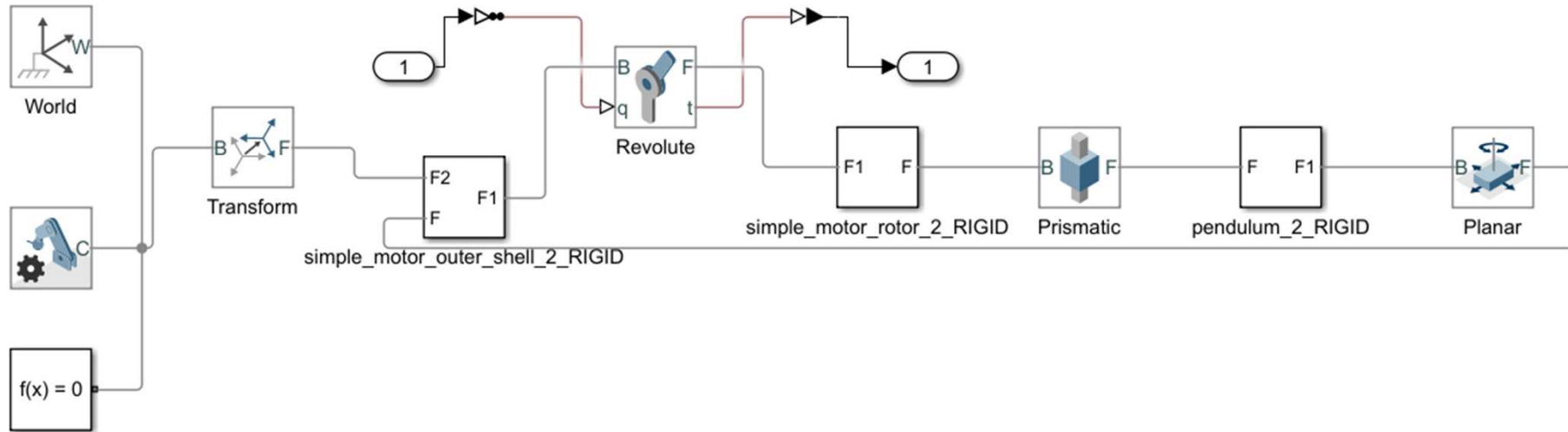
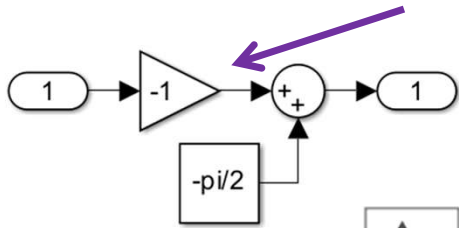
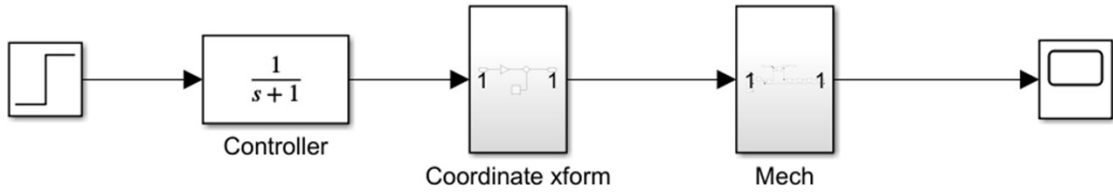


*Shell*

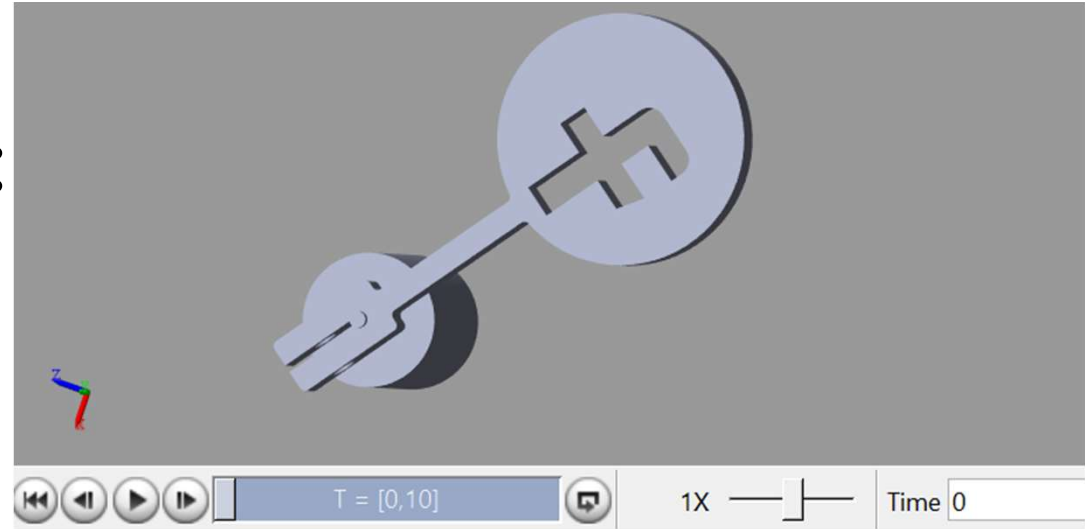
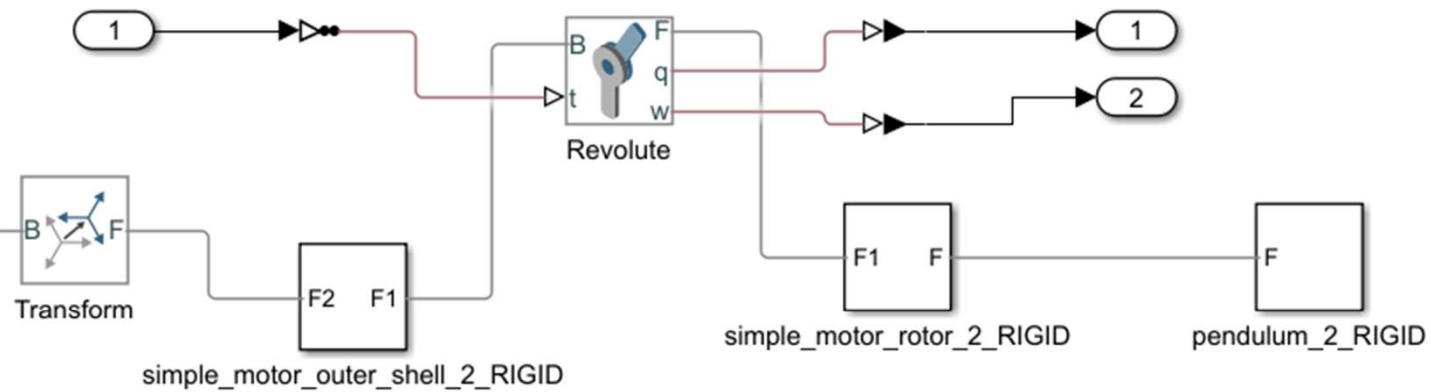
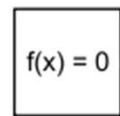
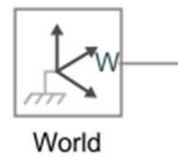
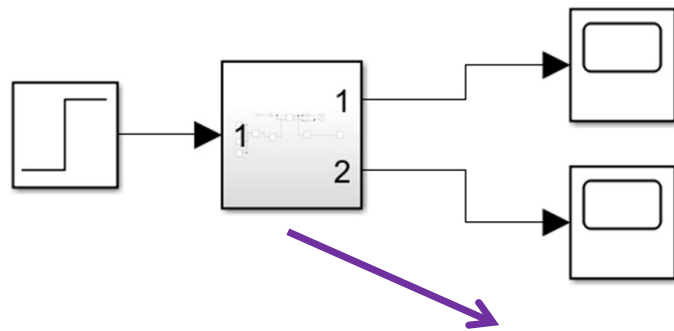
*Rotor*



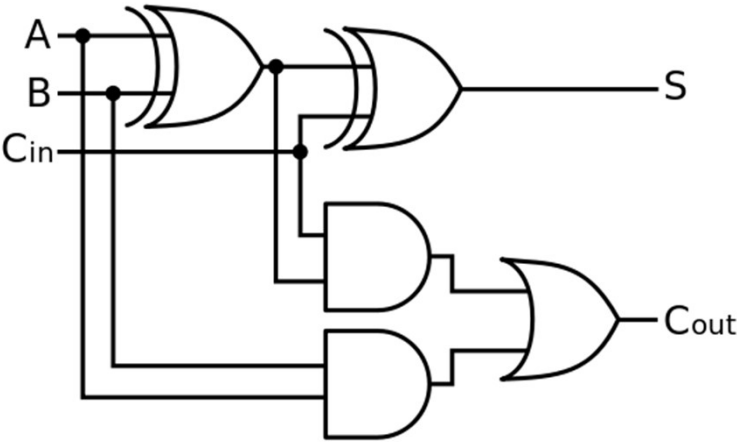
# Matlab/SimScape Simulation: Position



# Matlab/SimScape Simulation: Torque



# WinCUPL Code & WinSIM Waveform



Full Adder

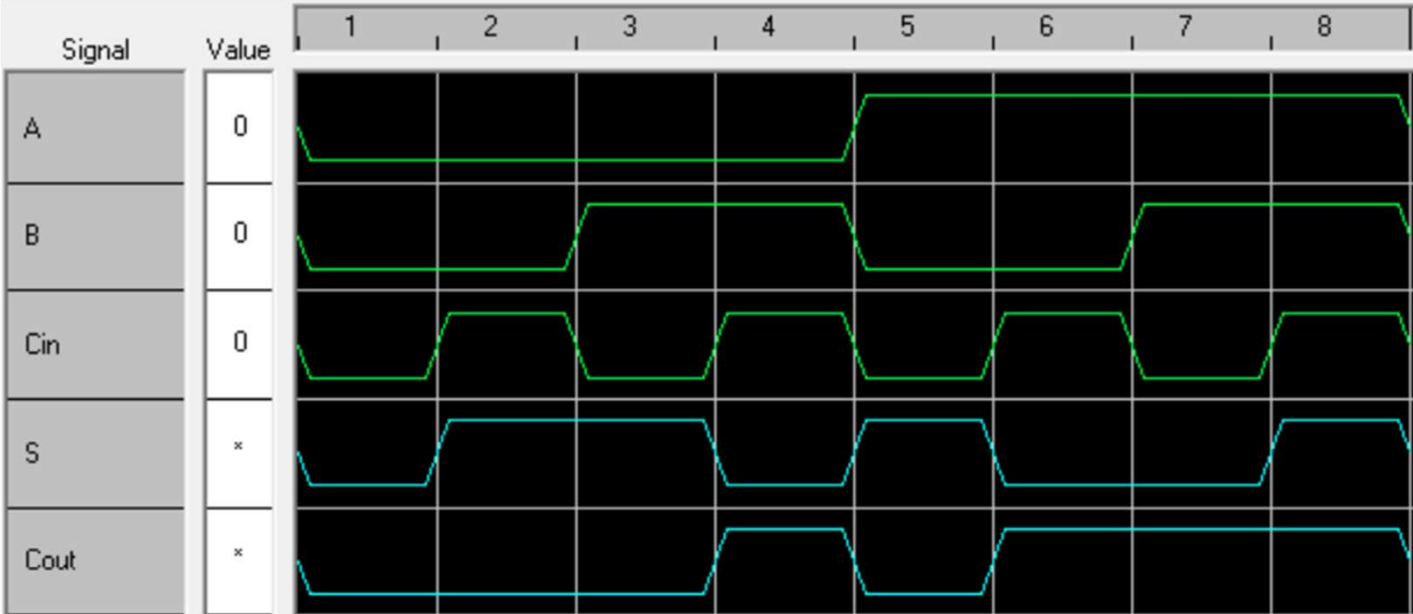
Inputs			Outputs	
A	B	Cin	Sum	Cout
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

```
Name      fulladder ;
PartNo    00 ;
Date      2023-02-02 ;
Revision  01 ;
Designer  Idil Bil ;
Company   UBC ;
Assembly  None ;
Location  ;
Device    gl6v8 ;

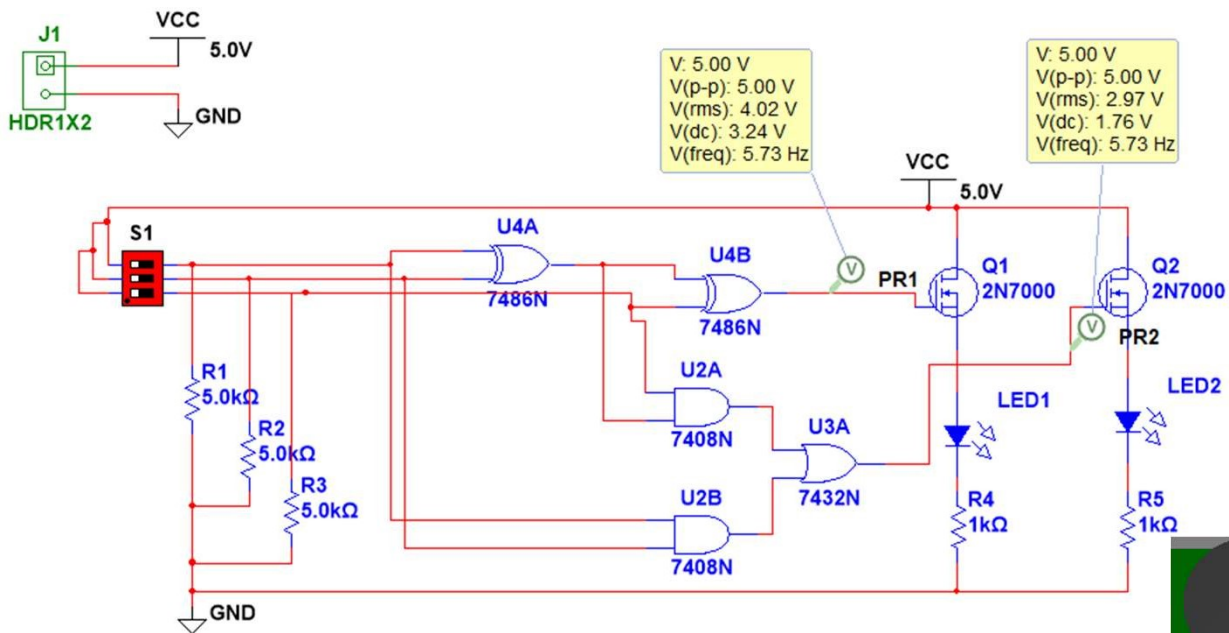
/* ***** INPUT PINS *****
PIN 2 = A;      /*operand 1*/
PIN 3 = B;      /*operand 2*/
PIN 4 = Cin;    /*carry in*/

/* ***** OUTPUT PINS *****
PIN 19 = S;     /*sum*/
PIN 18 = Cout;  /*carry out*/

S = (A ^ B) ^ Cin;
Cout = (A & B) # ((A ^ B) & Cin);
```







# Multism & Ultiboard

