INPUT CONDITIONER:

Specification:

The input conditioner will take in a button input, and ensures that the input stays stable for at least 1 millisecond before passing the input on to the next stage. This is done by checking for consistency on the signal response for the duration of the noise.

Inputs:

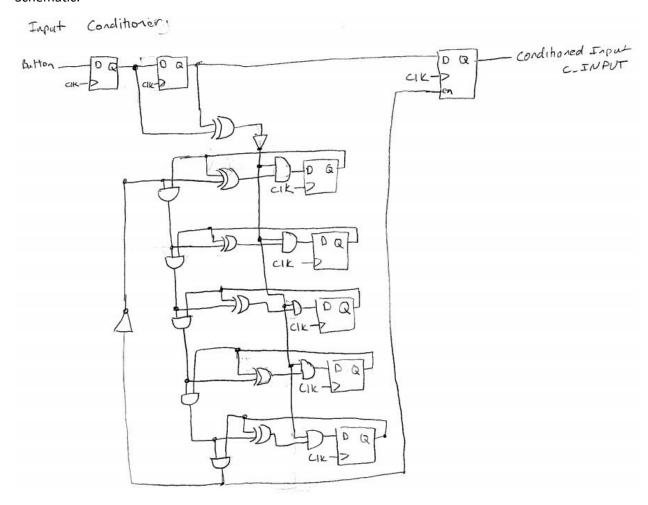
Button: Button input. Contains Noise.

Clock: CLK

Outputs:

Conditioned Output: C_INPUT

Schematic:



Performance:

Subcomponent	Cost Per	#Used	Total
DFF	13	7	91
DFF w/ E	20	1	20
Inverter	1	2	2
2AND	3	10	30
XOR	8	6	48

Total GIE: 191