



ENG152 Circuits Lab

MOSFET logic gates

Mher Saribekyan Mane Hambardzumyan

April 29, 2025

Step 1: AND gate

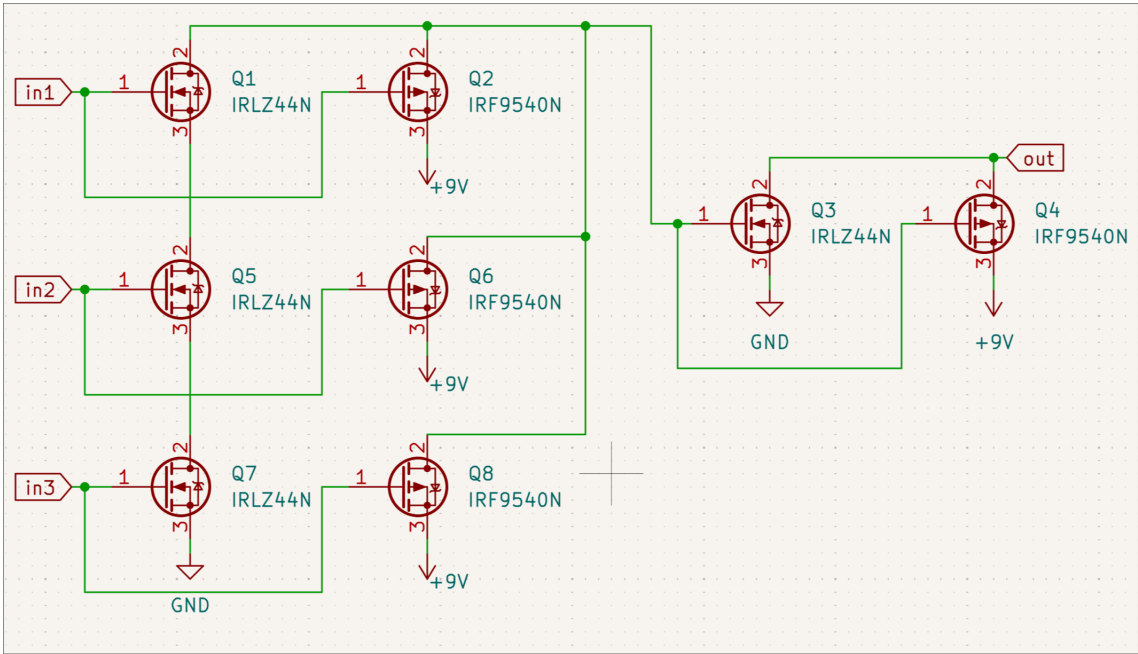


Figure 1: AND gate schematic

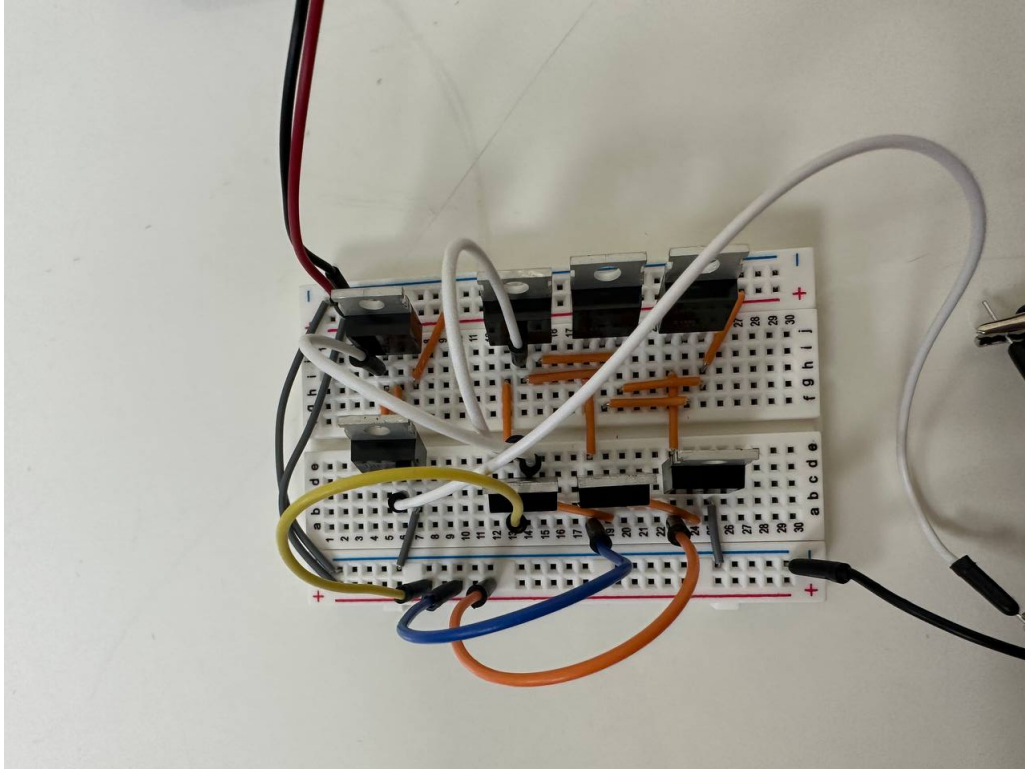


Figure 2: AND gate circuit

m	s	l	o
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

Table 1: Truth table for AND gate

We chose a NAND gate connected to a NOT gate, to make an AND gate.

Step 2: OR gate

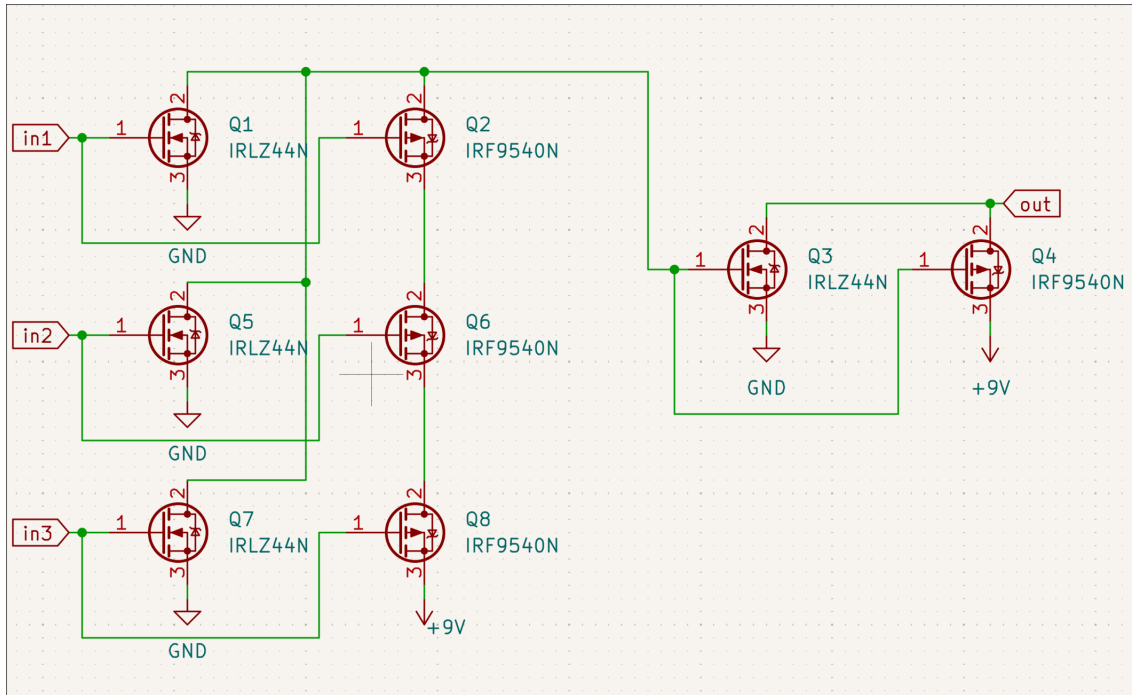


Figure 3: OR gate schematic

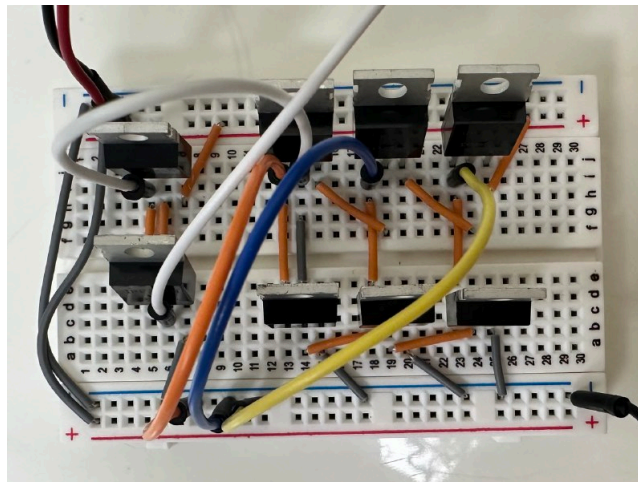


Figure 4: OR gate circuit

m	s	l	o
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1

Table 2: Truth table for OR gate

We chose a NOR gate connected to a NOT gate, to make an OR gate.