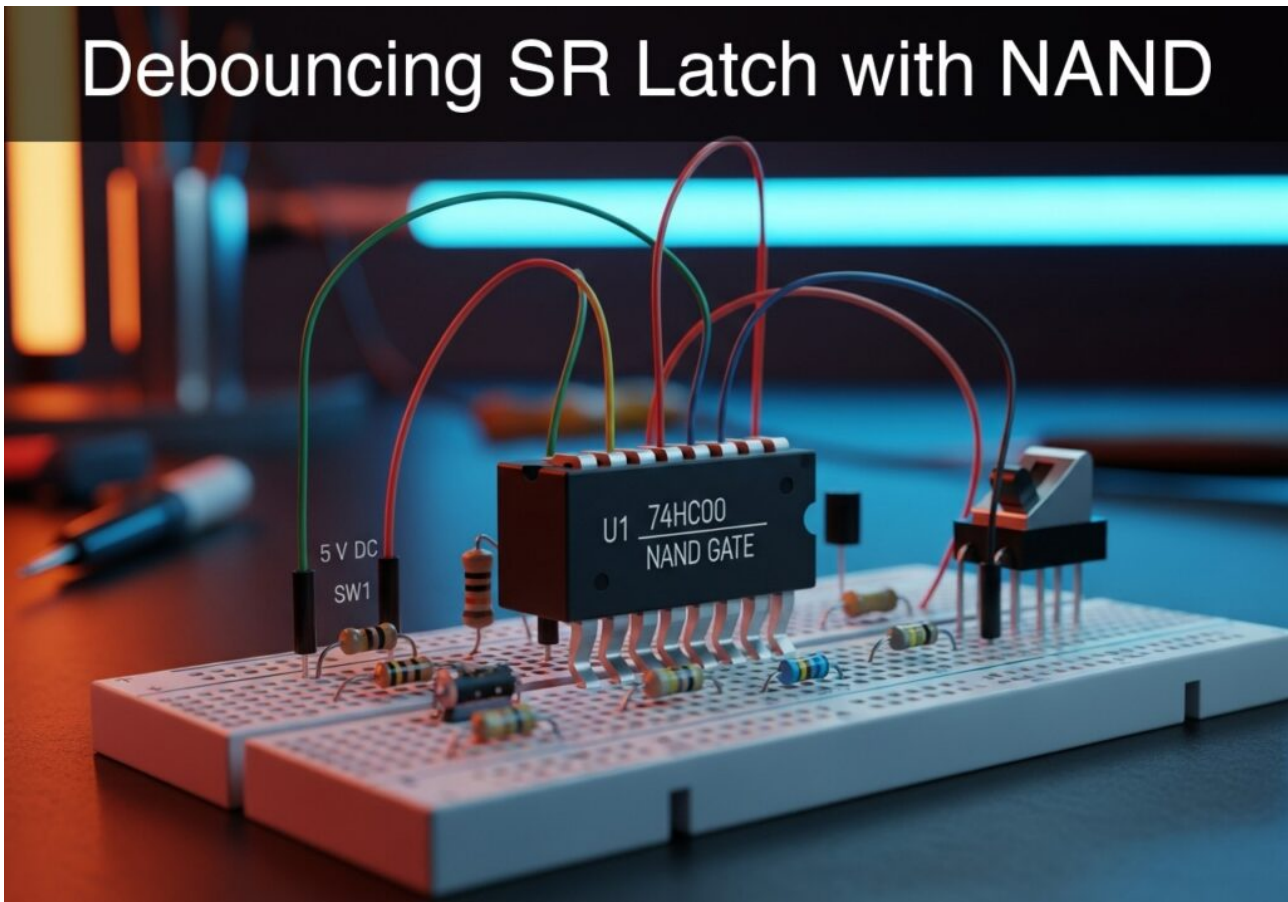


## Practical case: Debouncing SR Latch with NAND

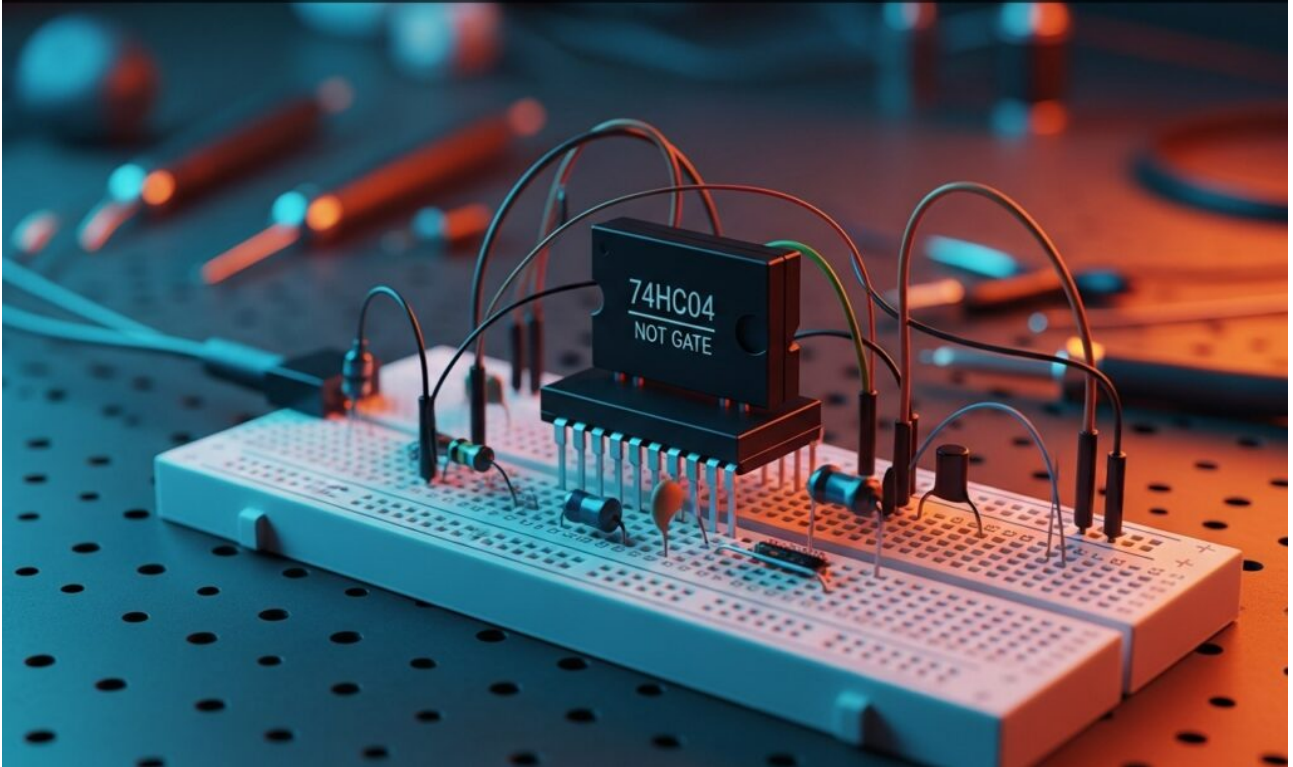


Master Digital Electronics by building a NAND gate SR latch to eliminate switch noise. Ensure clean signals and verify stable memory states with LEDs.

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## Practical case: CMOS linear amplifier

# CMOS linear amplifier

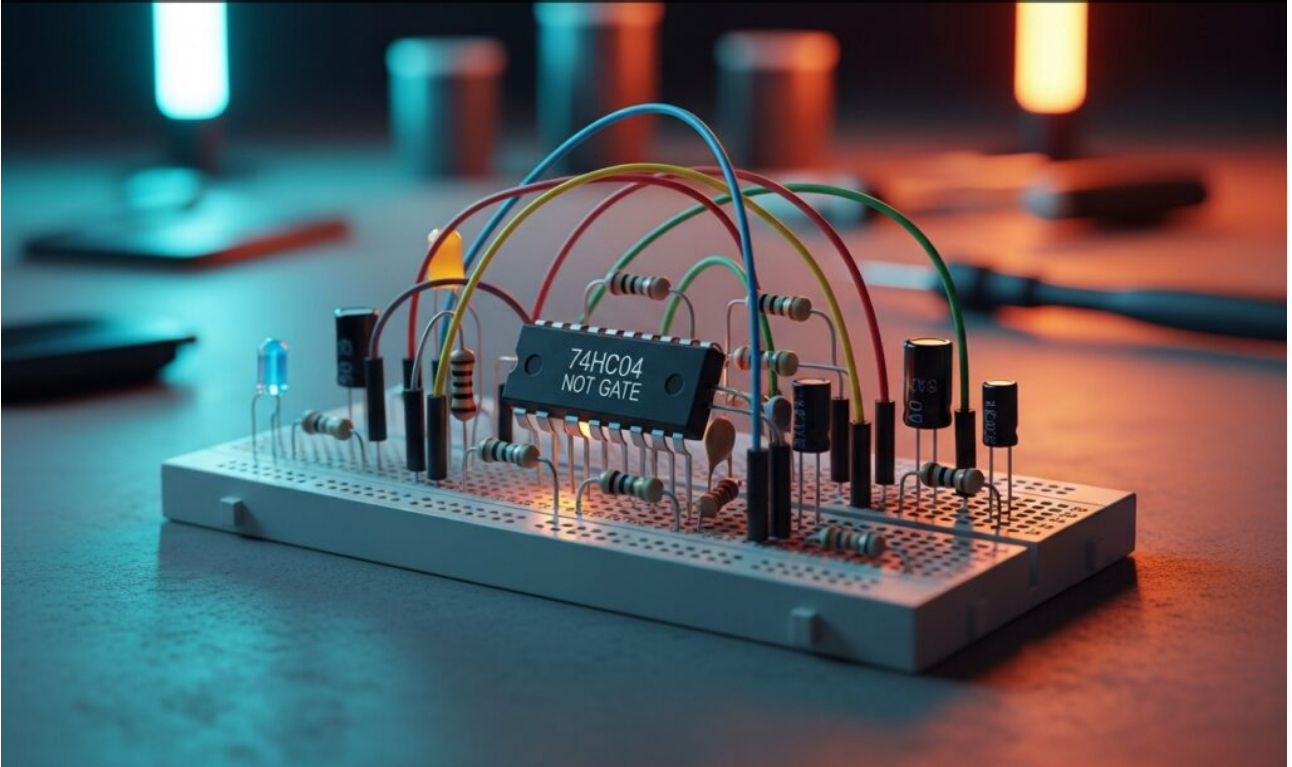


Explore Digital Electronics by configuring a NOT gate as a Class A linear amplifier. Build the circuit to observe measurable AC signal gain and self-biasing.

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## Practical case: Ring Oscillator and Delay

# Ring Oscillator and Delay



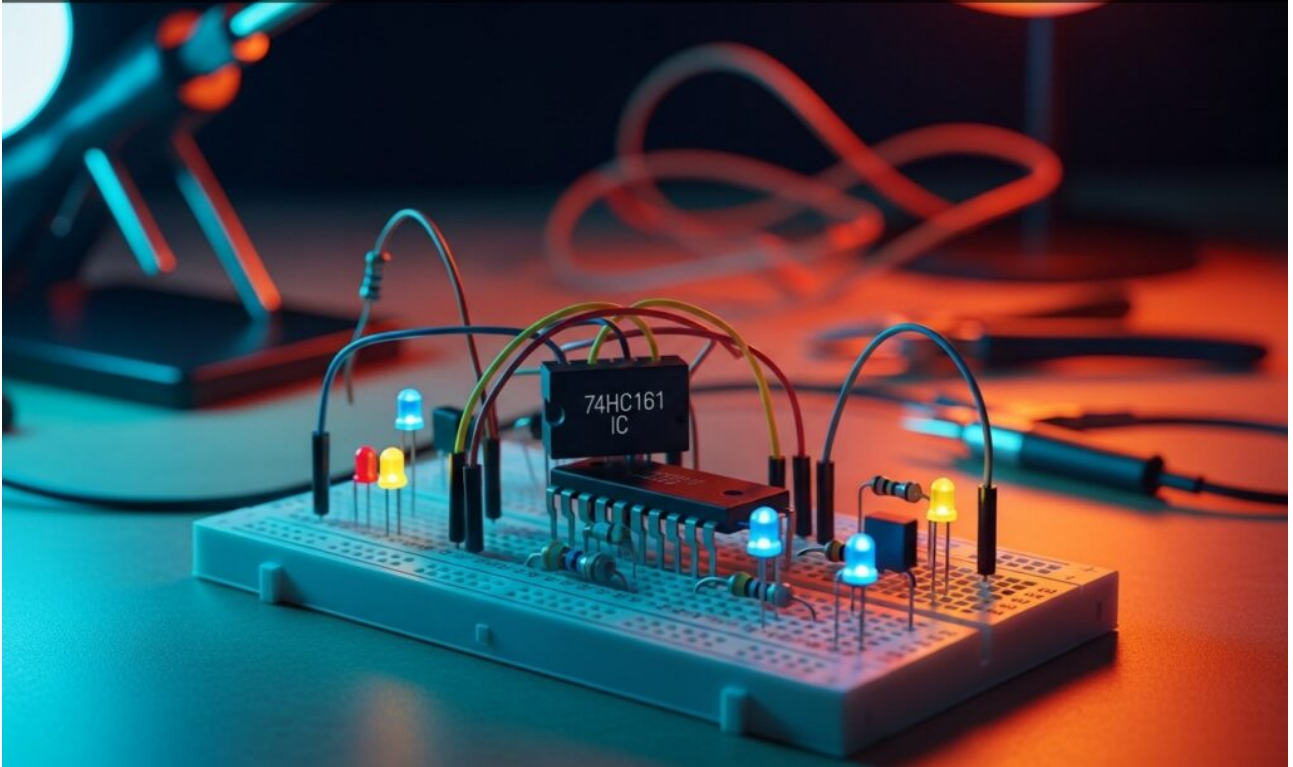
Master Digital Electronics by building a ring oscillator using NOT gates. Measure the MHz output frequency to calculate precise propagation delay.

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**Practical case: Frequency divider by 2, 4 and 8**



# 4-bit up counter with LEDs

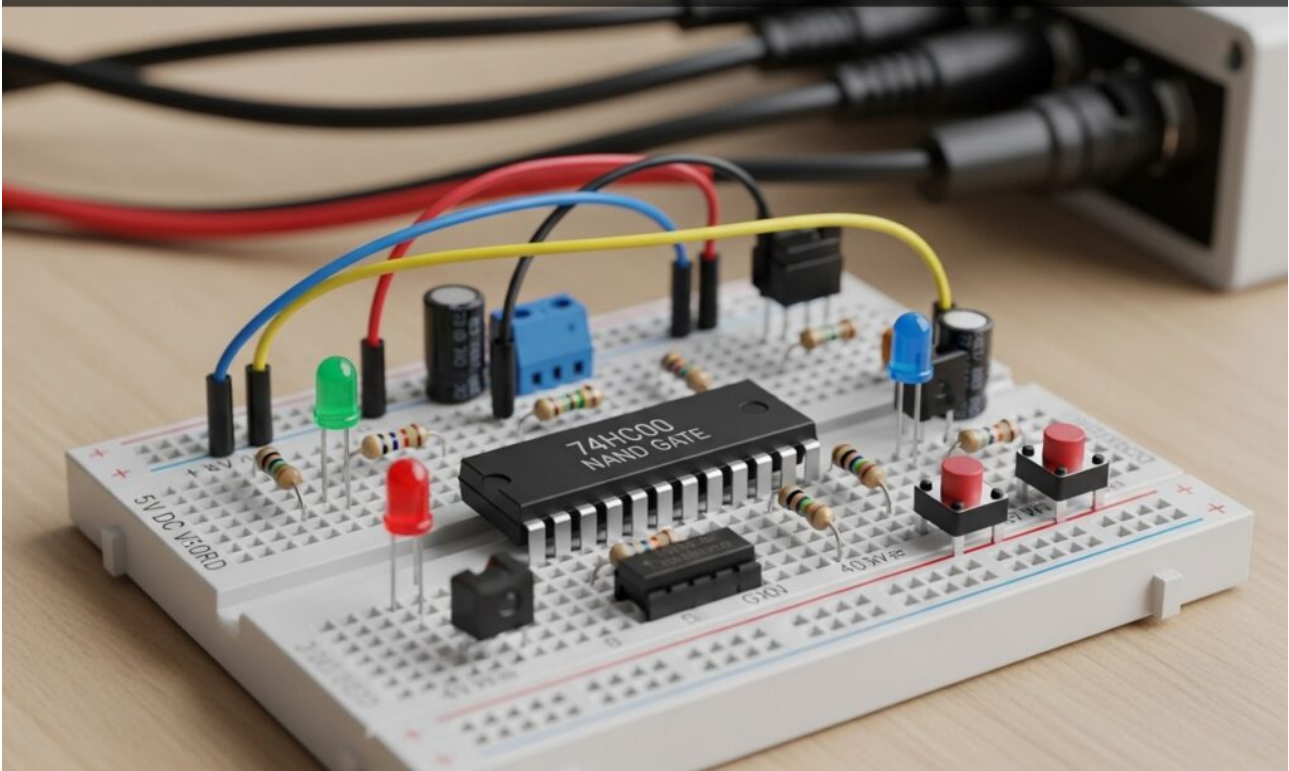


Build a practical Digital Electronics circuit with a Binary counter. Visualize the 0 to 15 sequence on LEDs and verify synchronous clock signals.

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## **Practical case: Dual Safety Motor Activation**

# Dual Safety Motor Activation



Learn Digital Electronics by building a safety circuit with a NAND gate. Create a two-hand motor control system that activates 5V output only on dual press.