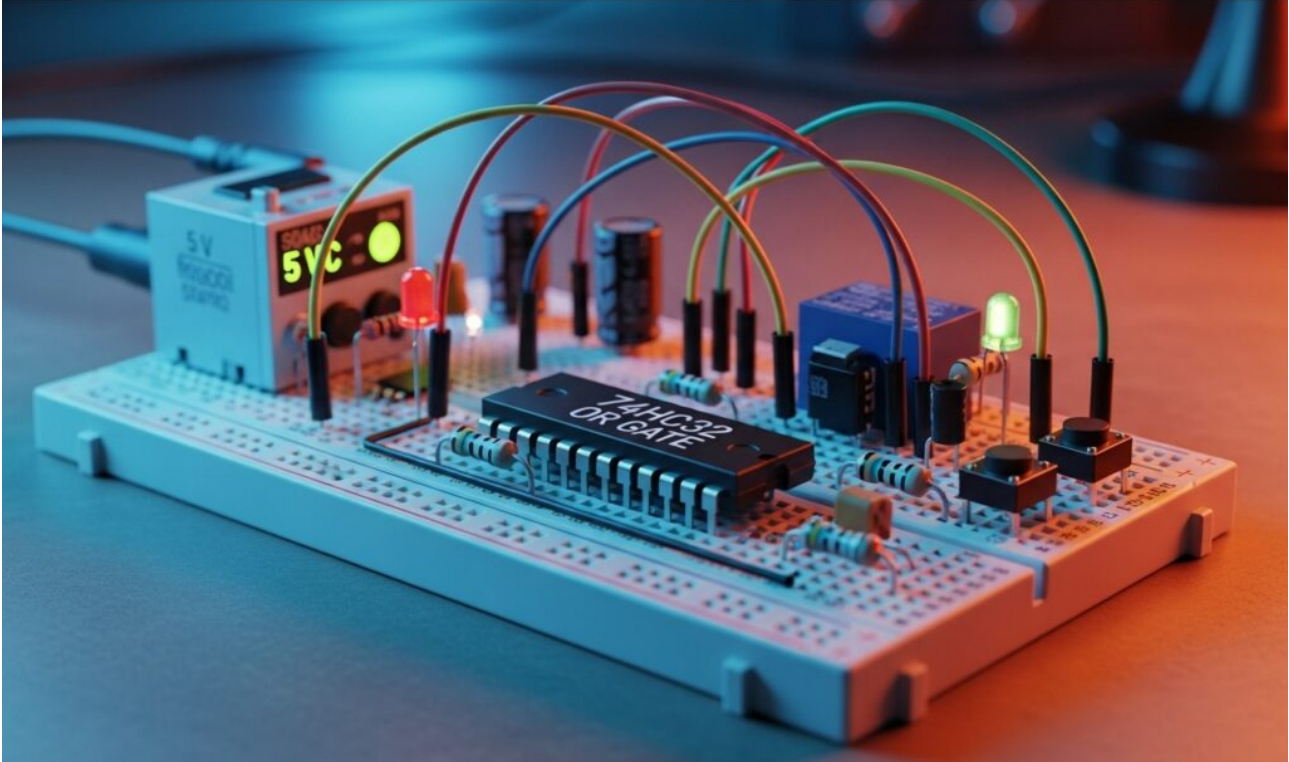


Practical case: Redundant motor starter system

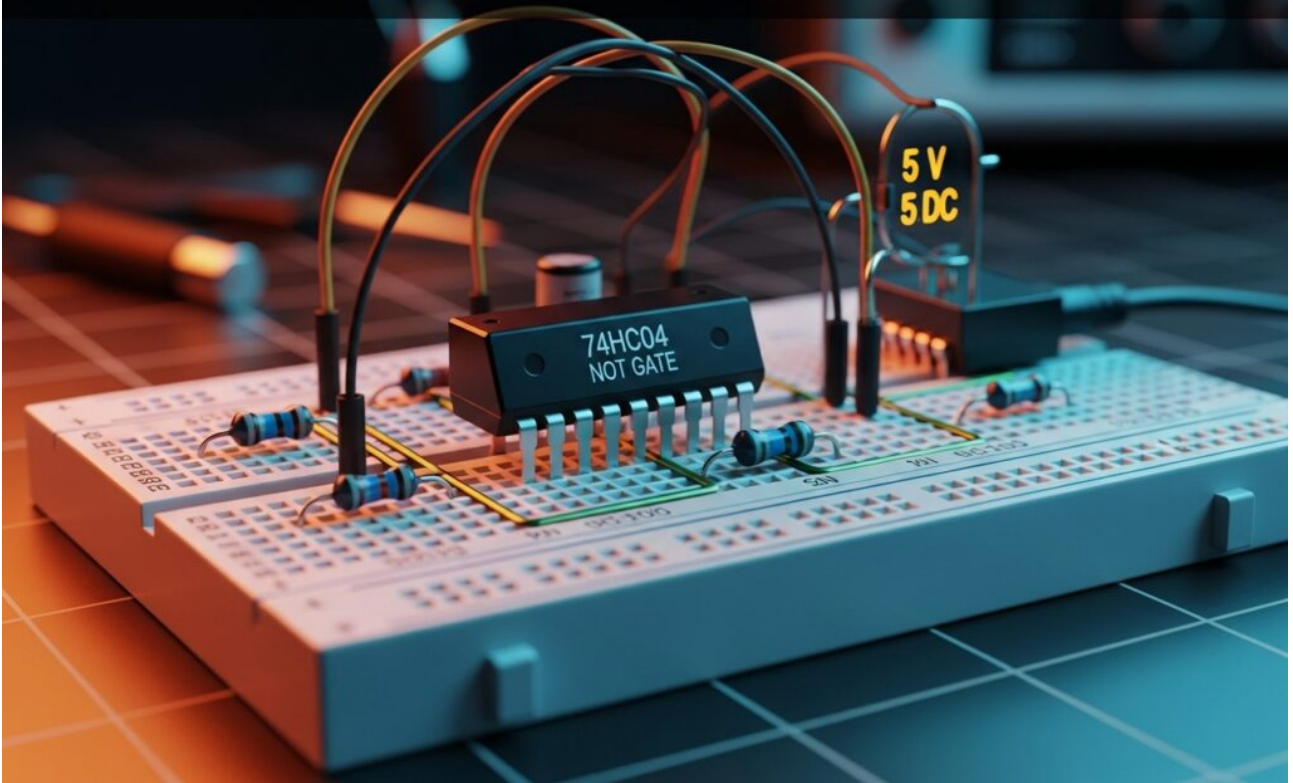
Redundant motor starter system



Master Digital Electronics by building a dual-start motor control circuit. Use an OR gate to trigger a relay and drive heavy loads from two distinct locations.

Practical case: Safety control with inverse logic

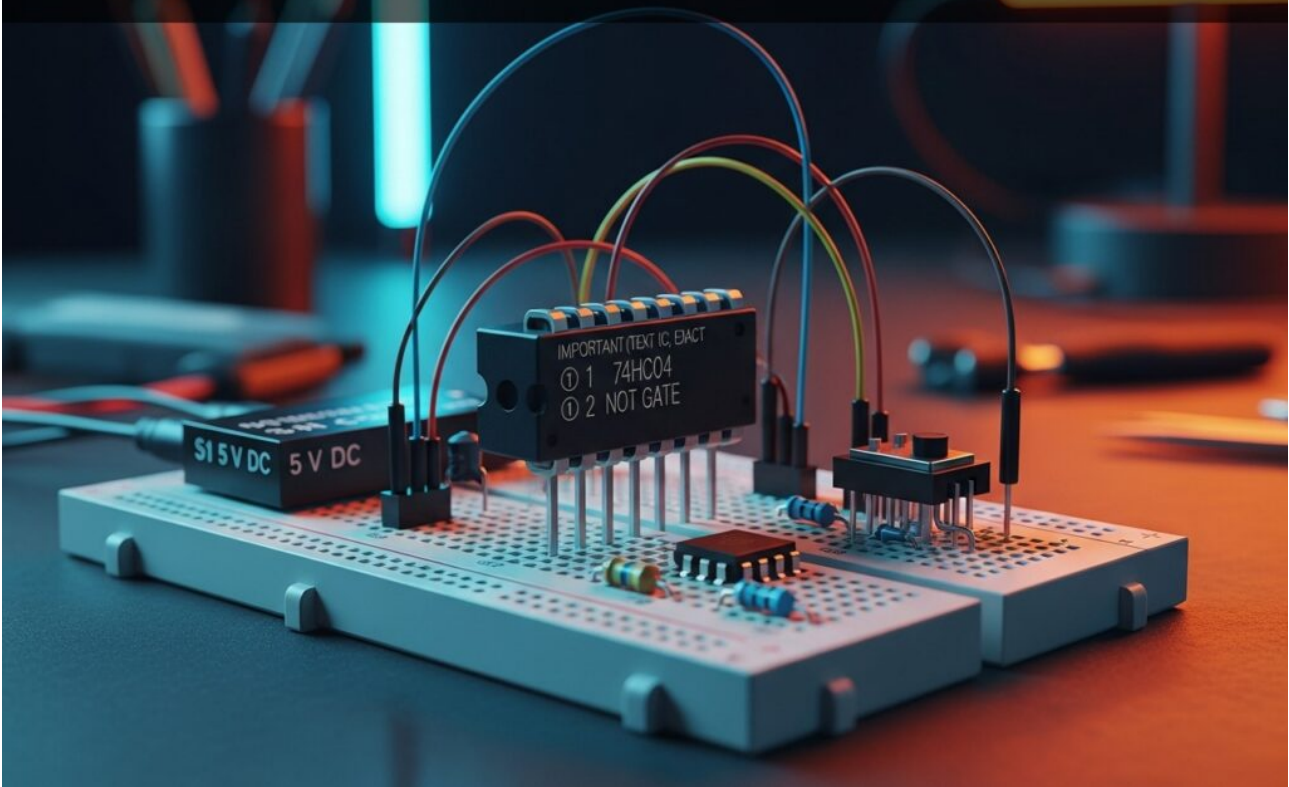
Safety control with inverse logic



Master Digital Electronics by building an emergency stop circuit. Use a NOT gate to invert sensor signals and instantly halt a motor when a limit is reached.

Practical case: Signal inverter with indicator LED

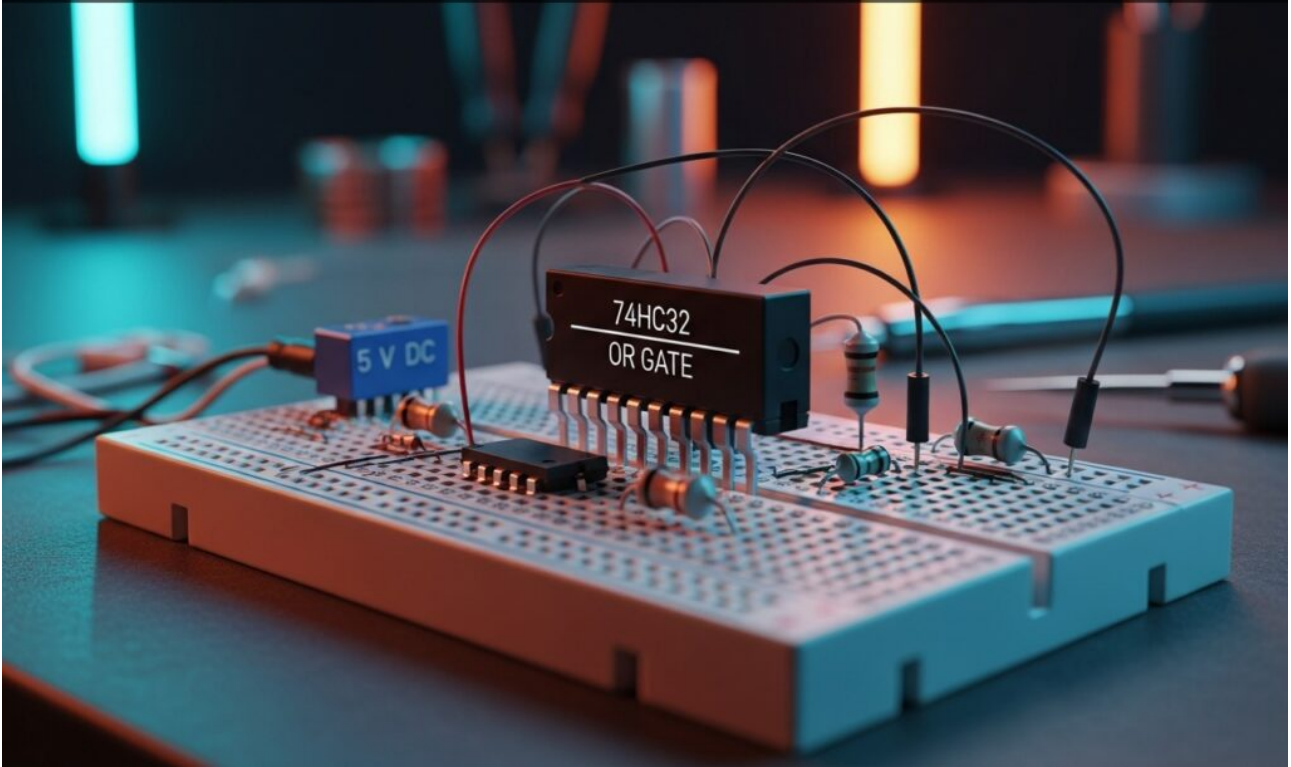
Signal inverter with indicator LED



Master Digital Electronics by building a safety interlock circuit with a NOT gate. Learn to invert logic signals and control LED indicators for real-world...

Practical case: Emergency water pump activation

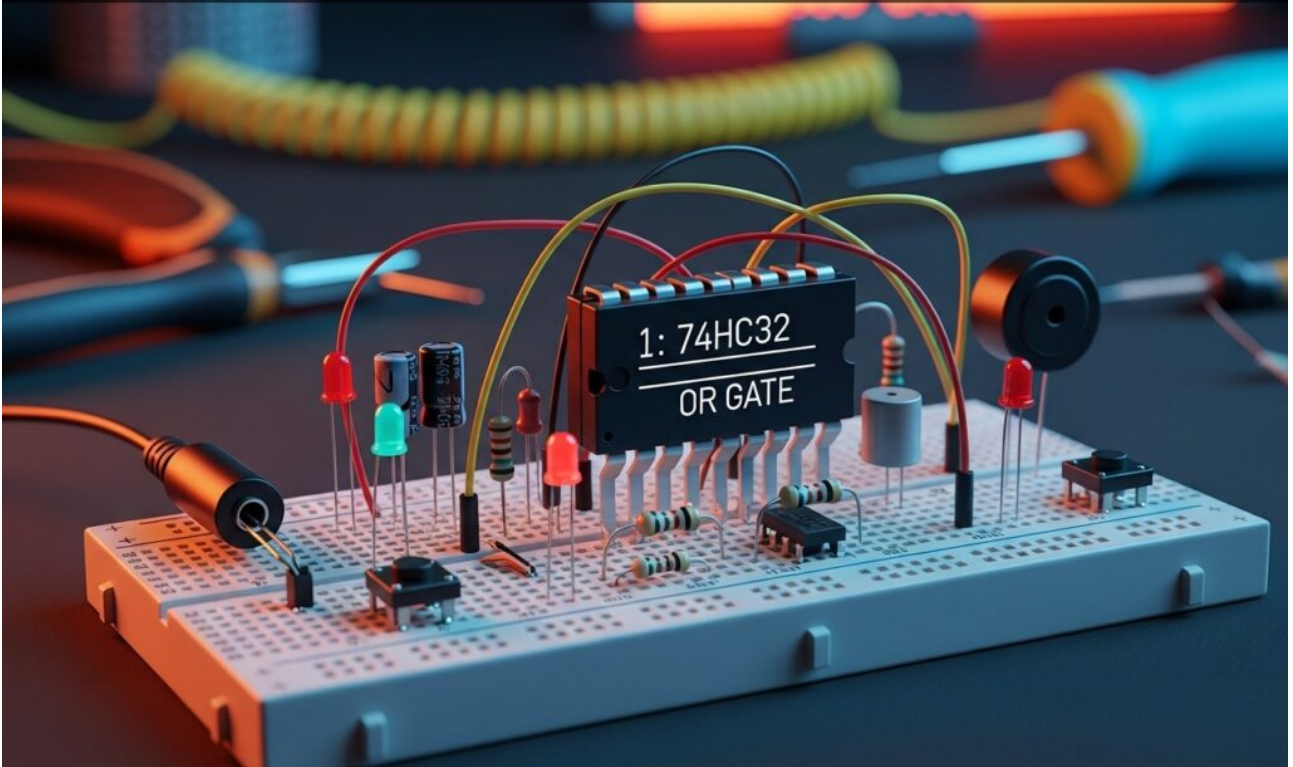
Emergency water pump activation



Master Digital Electronics by building a flood prevention system. Use an OR gate to activate a drainage pump when water sensors trigger a 5V logic signal.

Practical case: Car Door Open Warning System

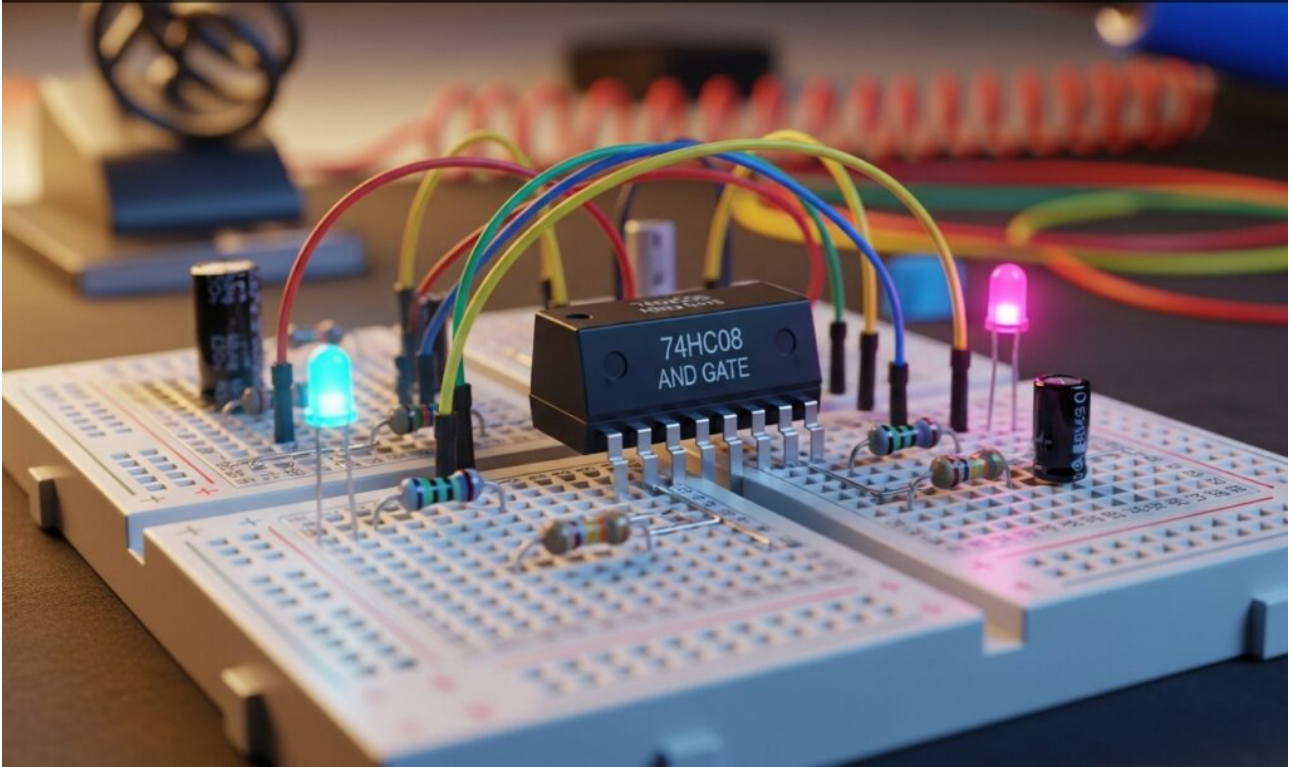
Car Door Open Warning System



Master Digital Electronics by building a car door alarm with a 74HC32 OR gate. Learn to detect open circuits and trigger LED alerts for safer security systems.

Practical case: Data transfer synchronization

Data transfer synchronization



Master Digital Electronics by building a clock gating circuit with an AND gate. Ensure precise synchronization pulses and reduce power only when data is ready.