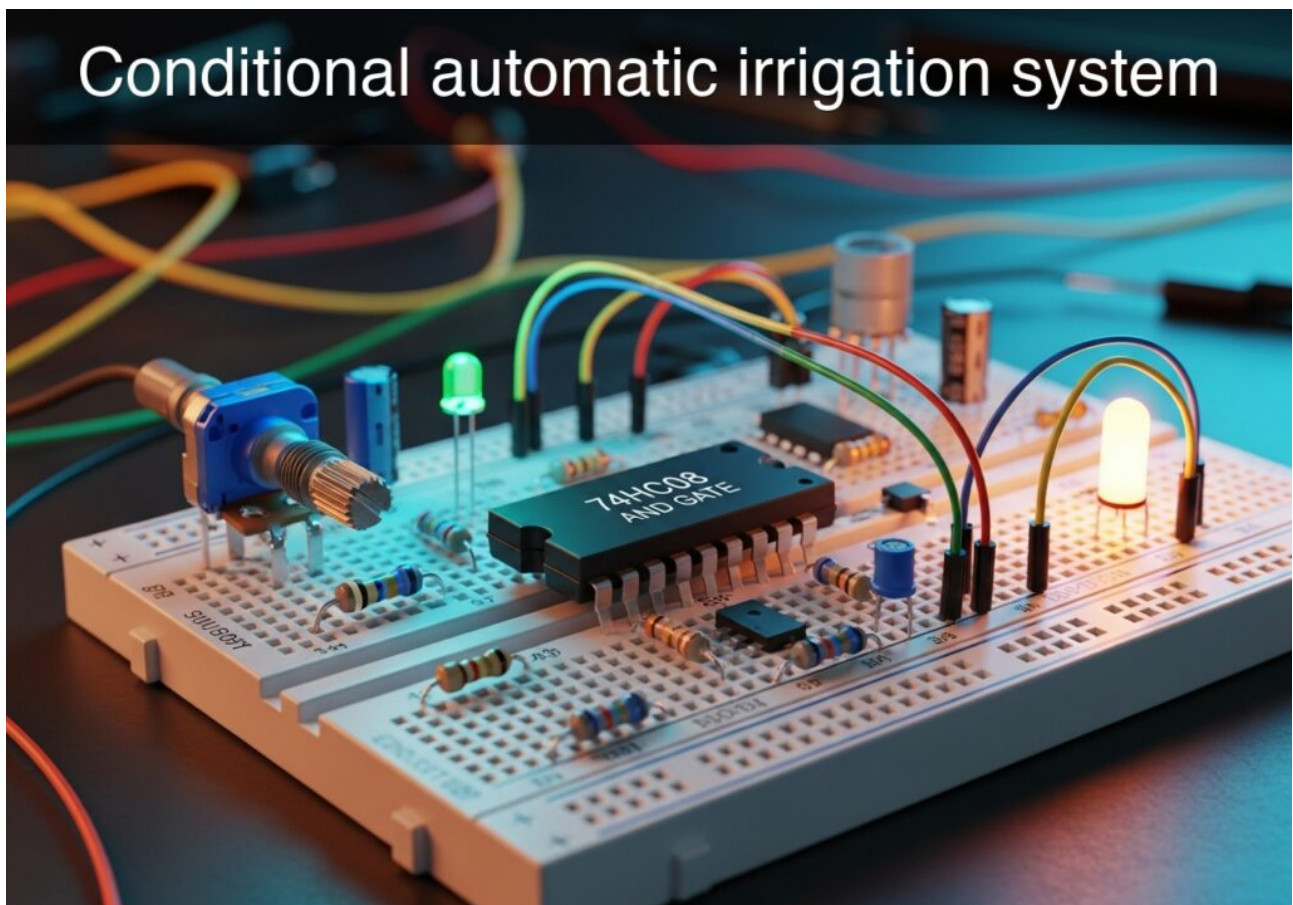


## Practical case: Conditional automatic irrigation system

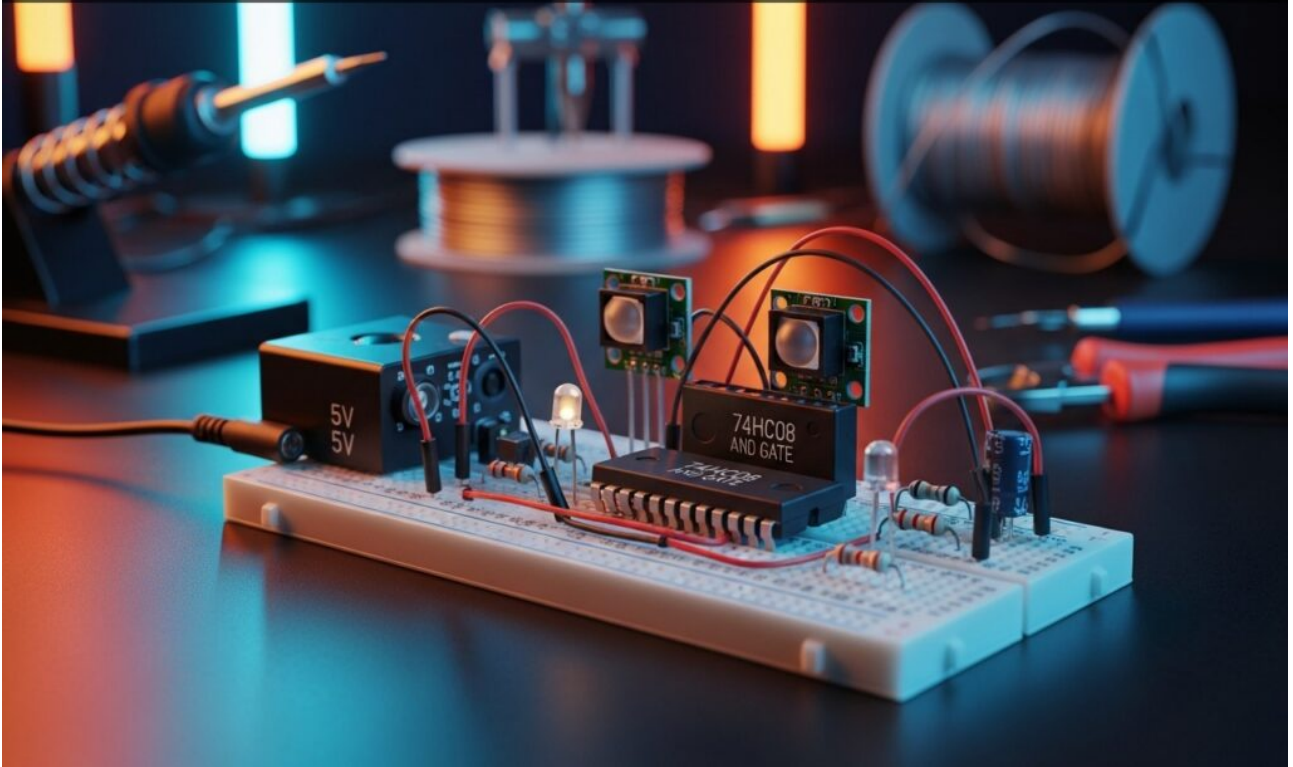


Master Digital Electronics by building a smart irrigation controller with a 74HC08 AND gate. Create a safety circuit that activates a pump only when safe.

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## Practical case: Dual sensor alarm activation

# Dual sensor alarm activation

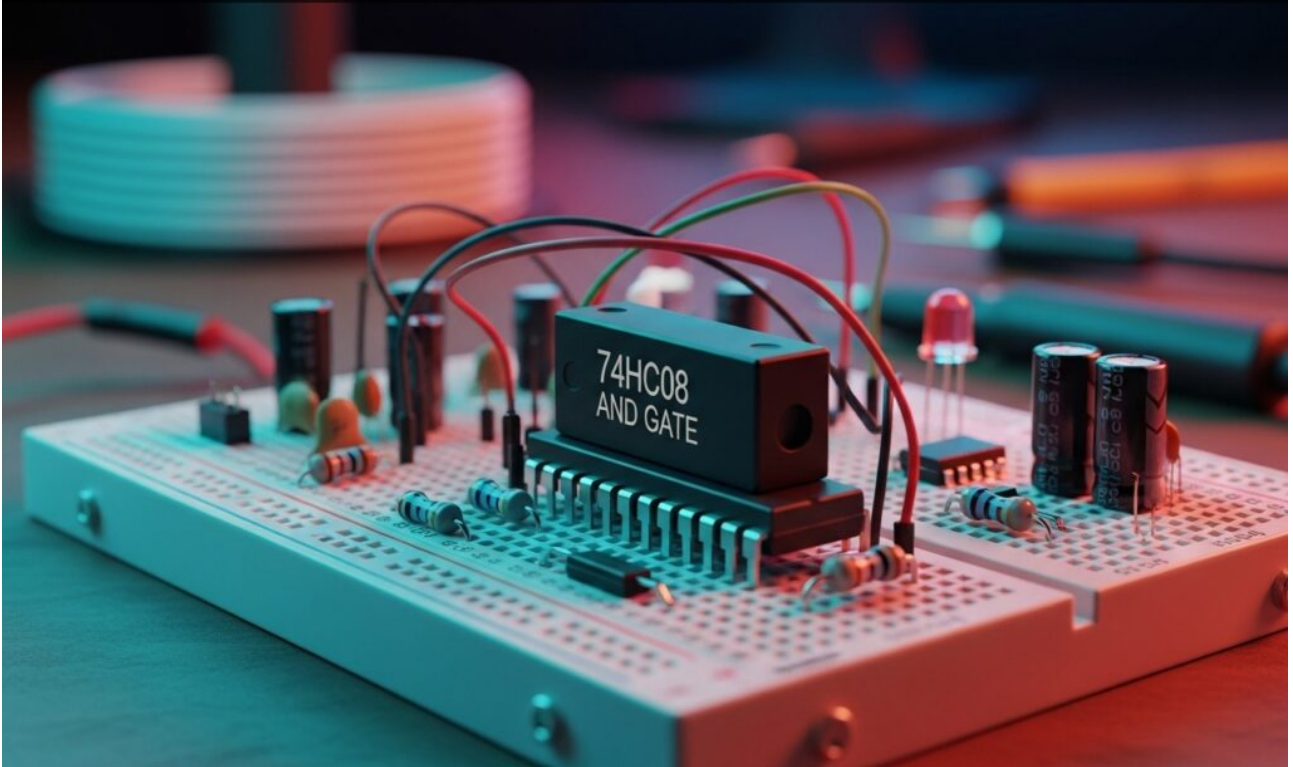


Master Digital Electronics by building a dual-sensor security alarm. Learn how an AND gate validates simultaneous inputs to trigger a verified output signal.

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## Practical case: Safe Hydraulic Press Control

# Safe Hydraulic Press Control

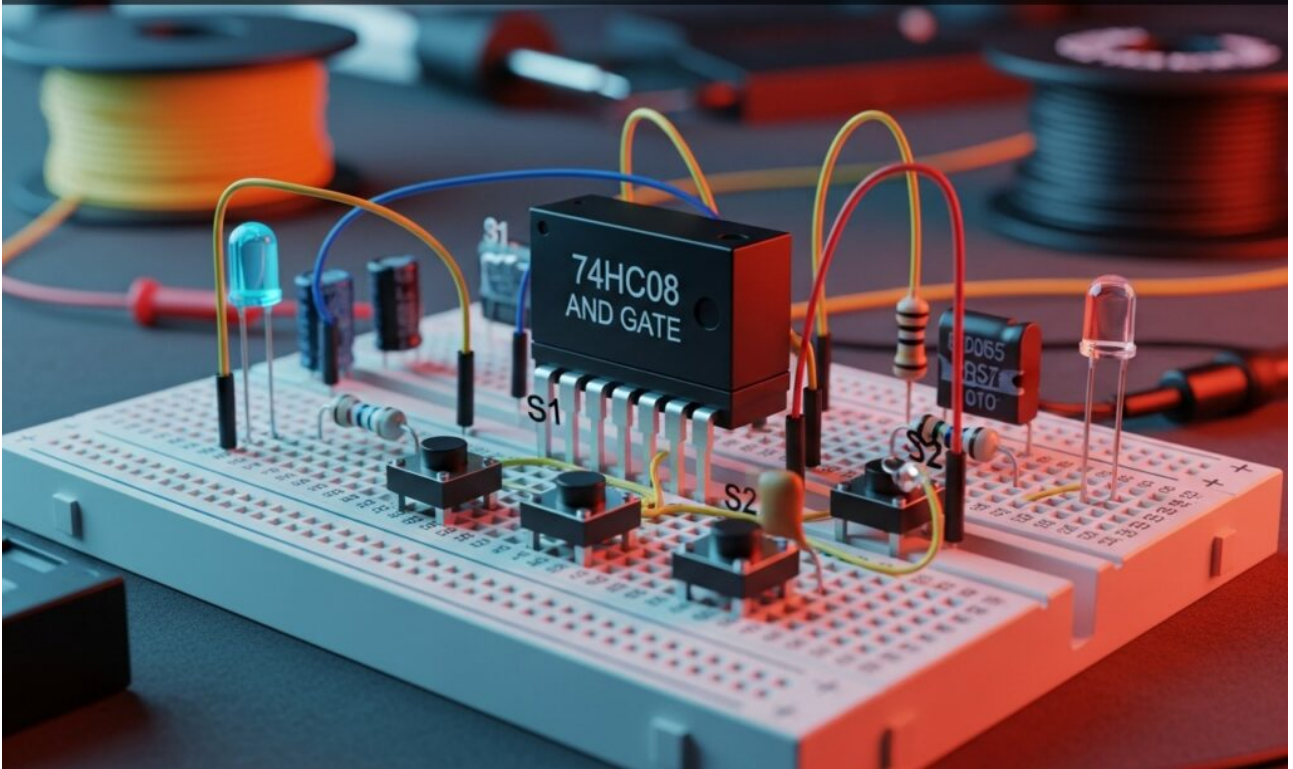


Master Digital Electronics by building a two-hand safety circuit using an AND gate. Ensure the LED load activates only when two inputs trigger simultaneously.

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**Practical case: Double Key Security System**

# Double Key Security System



Master Digital Electronics by building a dual-key security alarm with an AND gate. Learn to control logic signals and activate an LED only when inputs match.