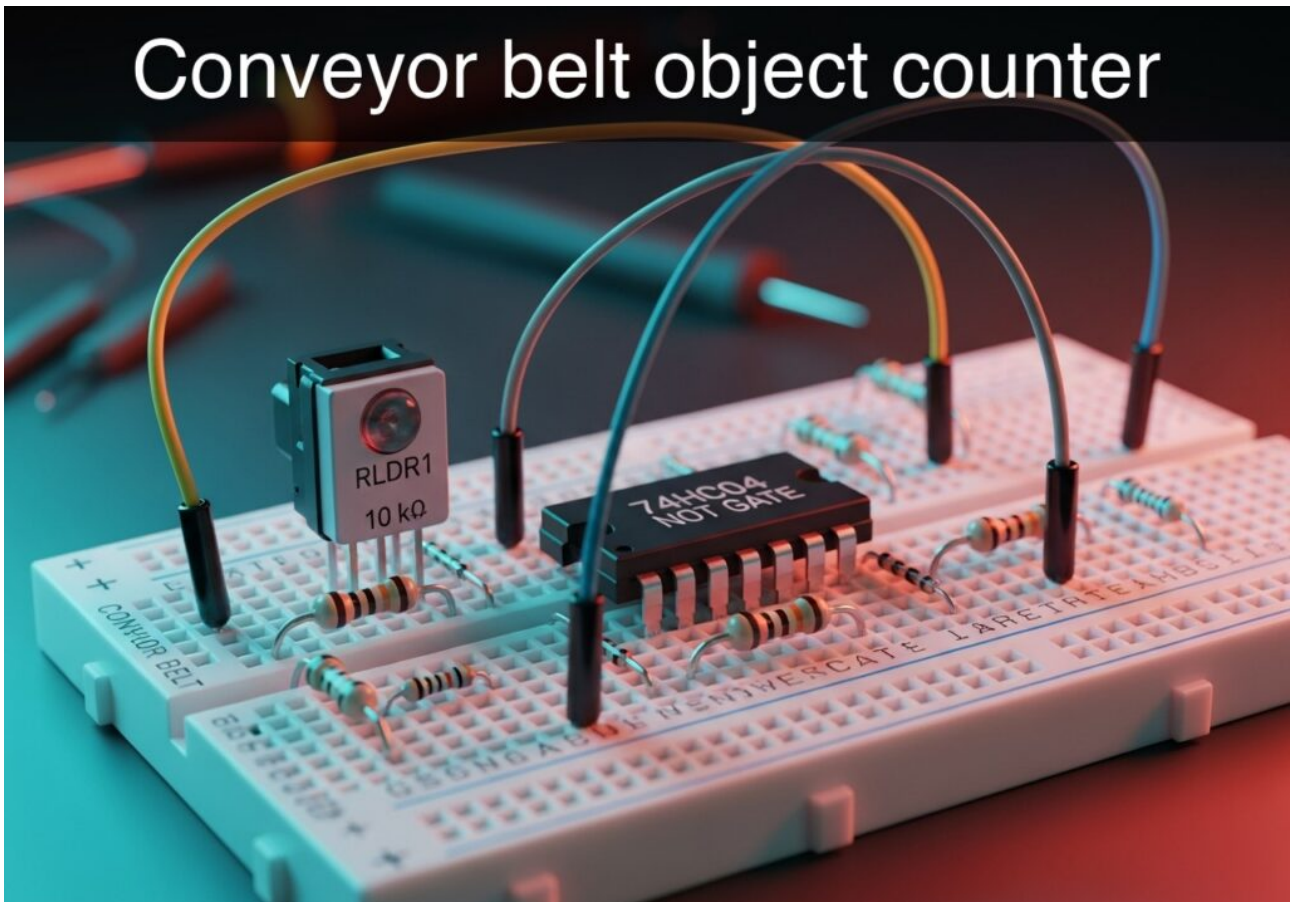


## Practical case: Conveyor belt object counter



Level: Medium - Build an optical object counter with decimal outputs and an automatic batch reset.

## Objective and use case

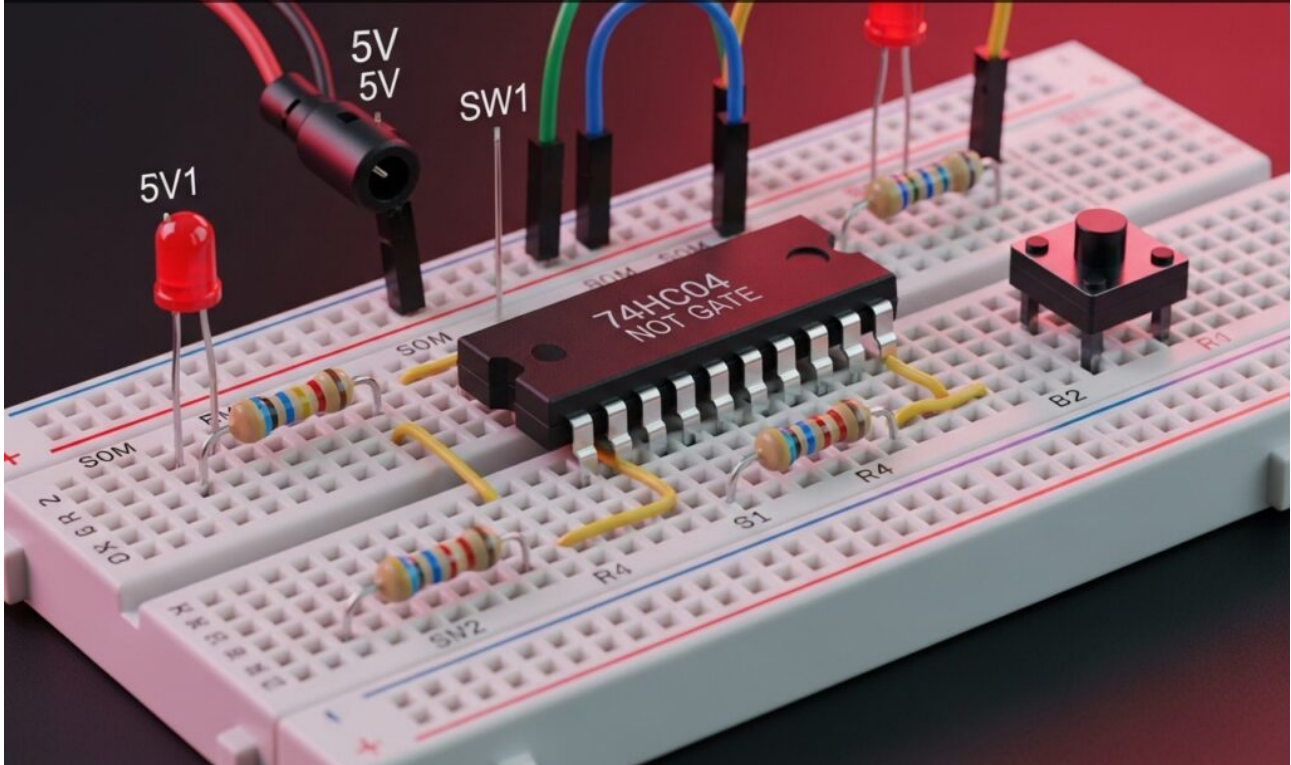
In this practical case, you will...

---

## Practical case: One-Shot Timer Using NE555



# Standby mode indicator



Level: Basic - Understand logical inversion using a NOT gate to activate a standby LED when the main system turns off.

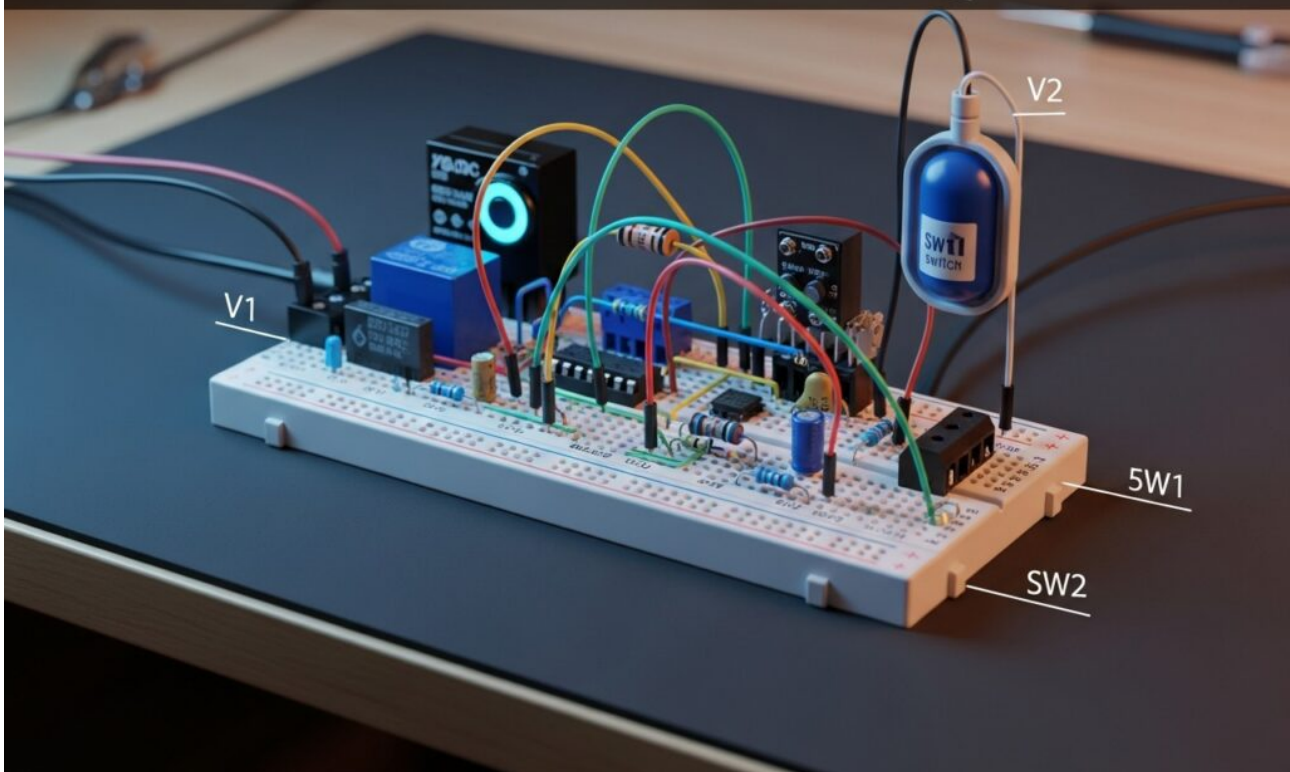
## Objective and use case

You will...

---

**Practical case: Automatic Reservoir Pump Controller**

# Automatic Reservoir Pump Controller



Level: Medium | Construct a transistor-driven relay circuit to automatically control a water pump using a float switch.

## Objective and use case

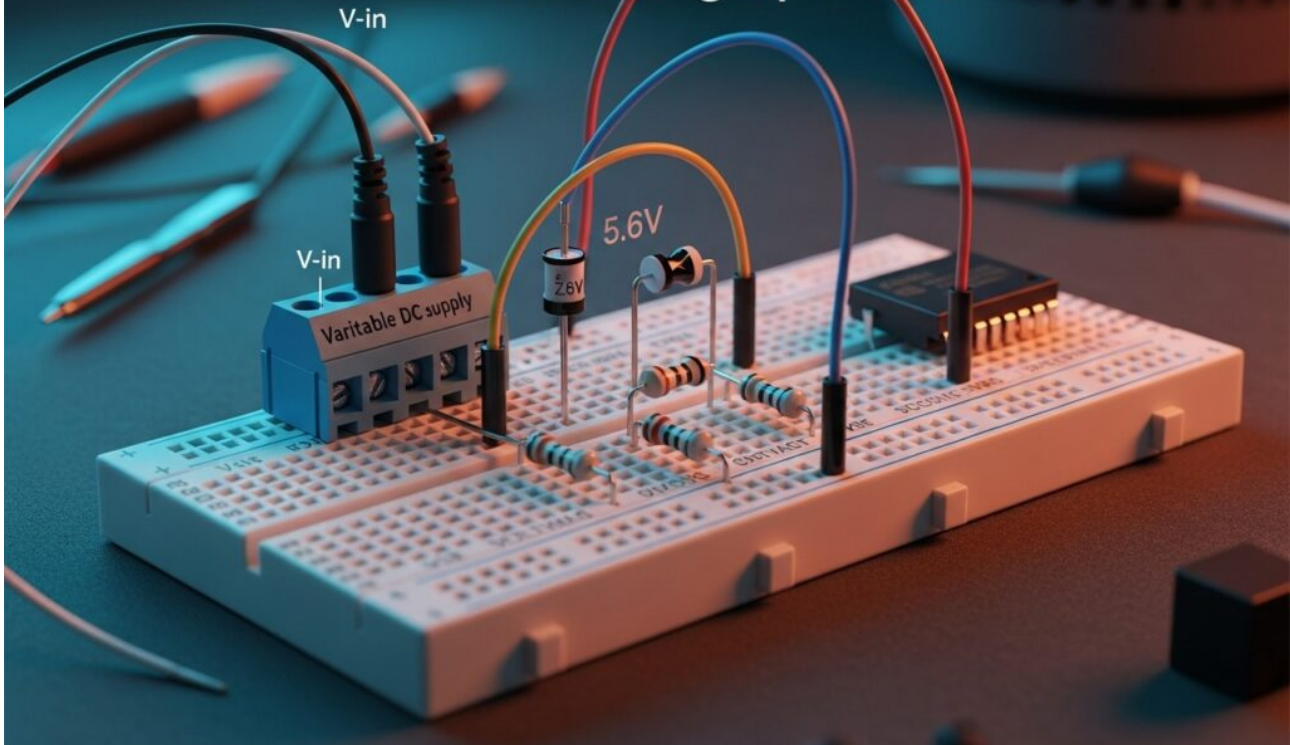
In this...

---

**Practical case: Overvoltage protection**

# Overvoltage protection

## Overvoltage protection



Level: Medium - Disconnect a critical load using a normally closed relay contact when a voltage threshold is exceeded.

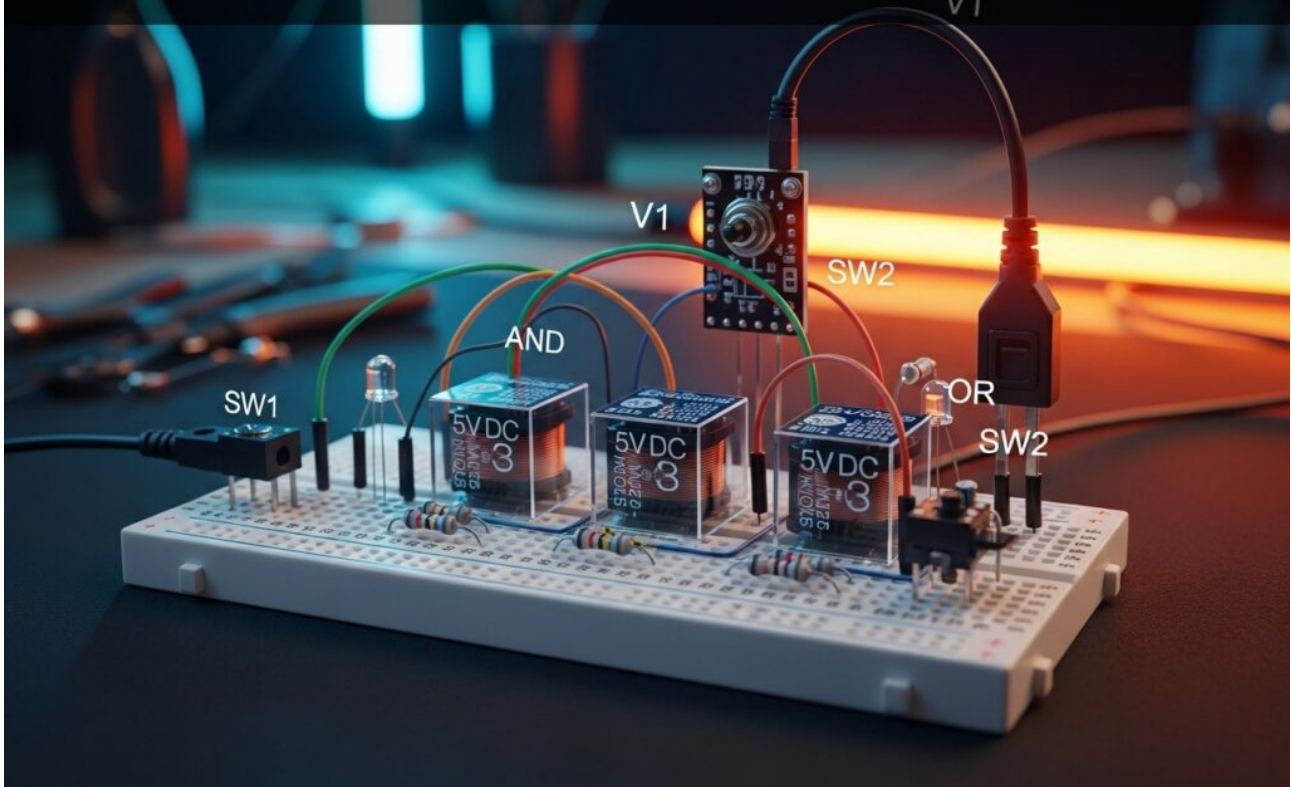
## Objective and use case

In this...

---

**Practical case: AND and OR logic using relays**

# AND and OR logic using relays



Level: Medium - Build basic logic gates by wiring the contacts of multiple relays in series and parallel.

## Objective and use case

\* \*\*What you will...