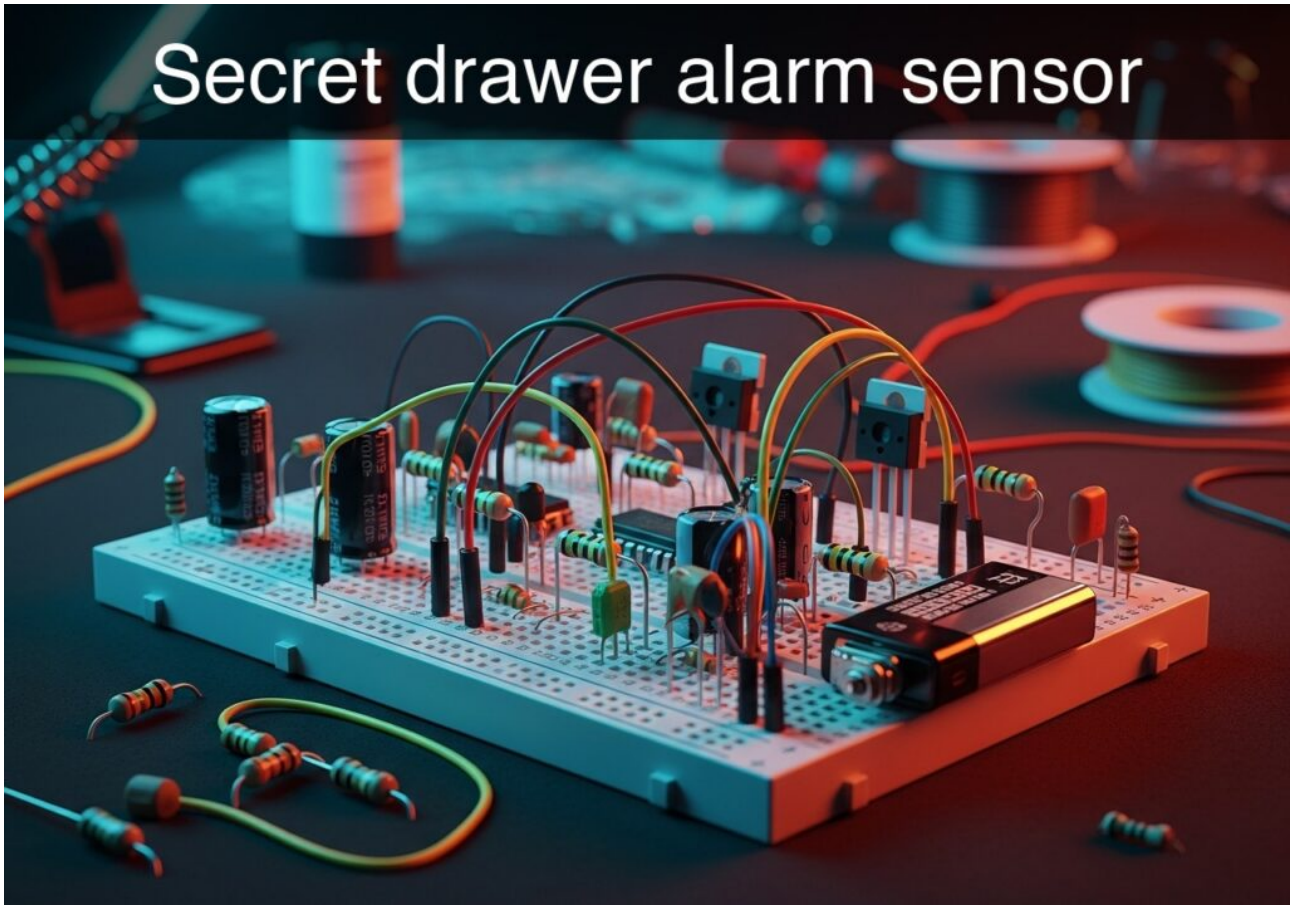
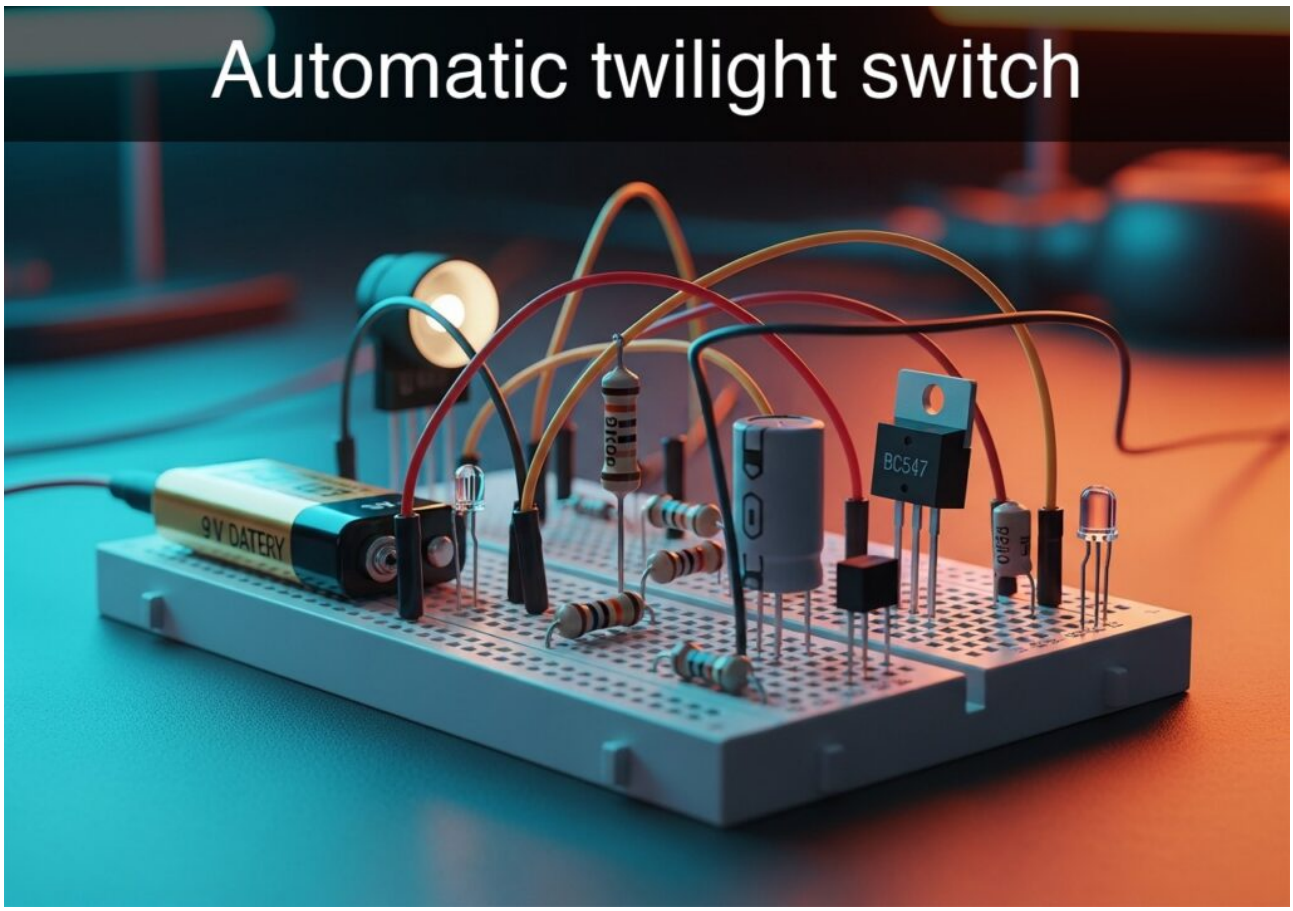
Practical case: Secret drawer alarm sensor



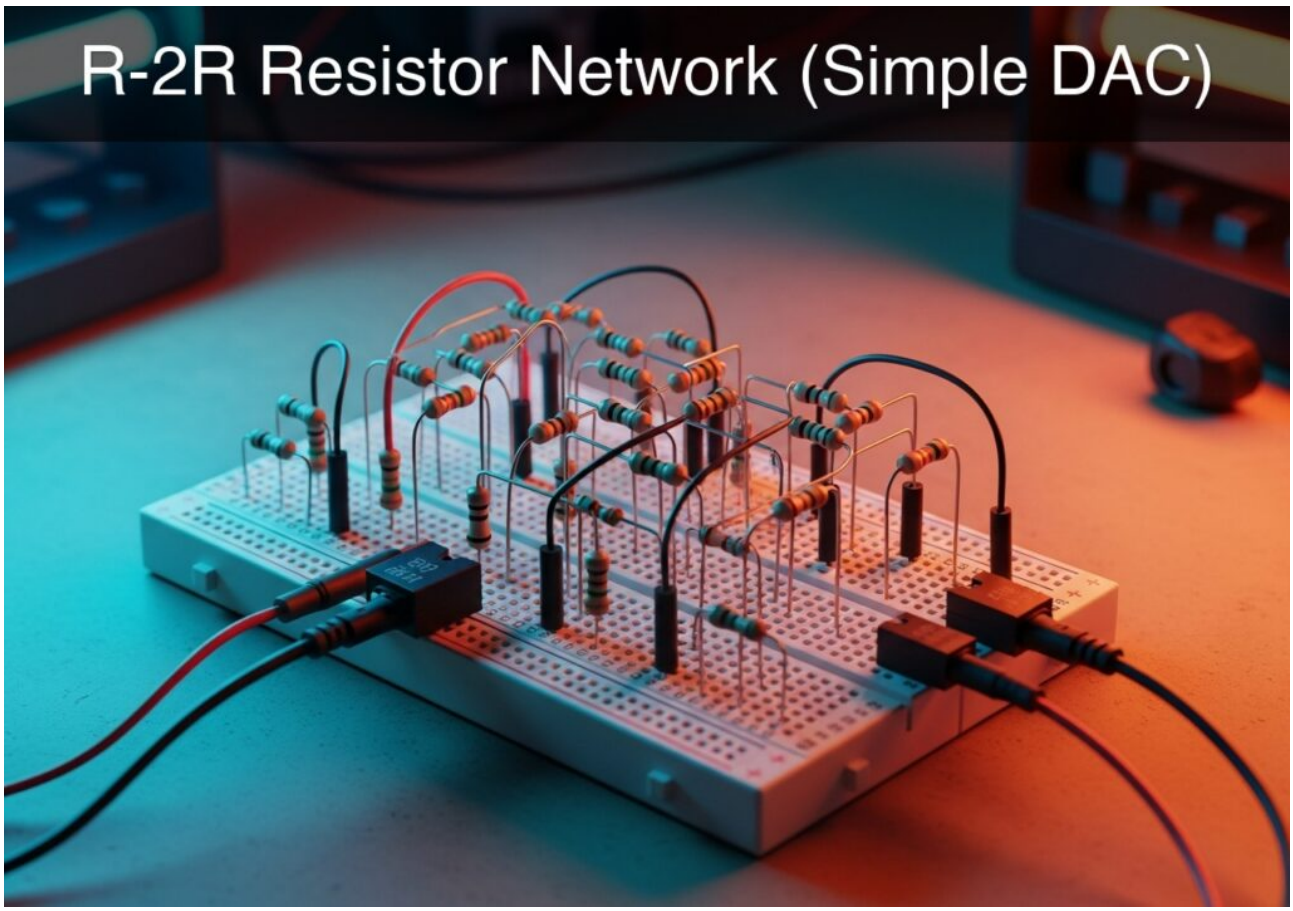
Master Analog Electronics by building a drawer alarm. Use a Photoresistor to detect light and trigger a buzzer instantly, securing your valuables effectively.

Practical case: Automatic twilight switch



Learn Analog Electronics by building a dark-sensing switch with a Photoresistor. Create a circuit that automatically turns on an LED when ambient light drops.

Practical case: R-2R Resistor Network (Simple DAC)

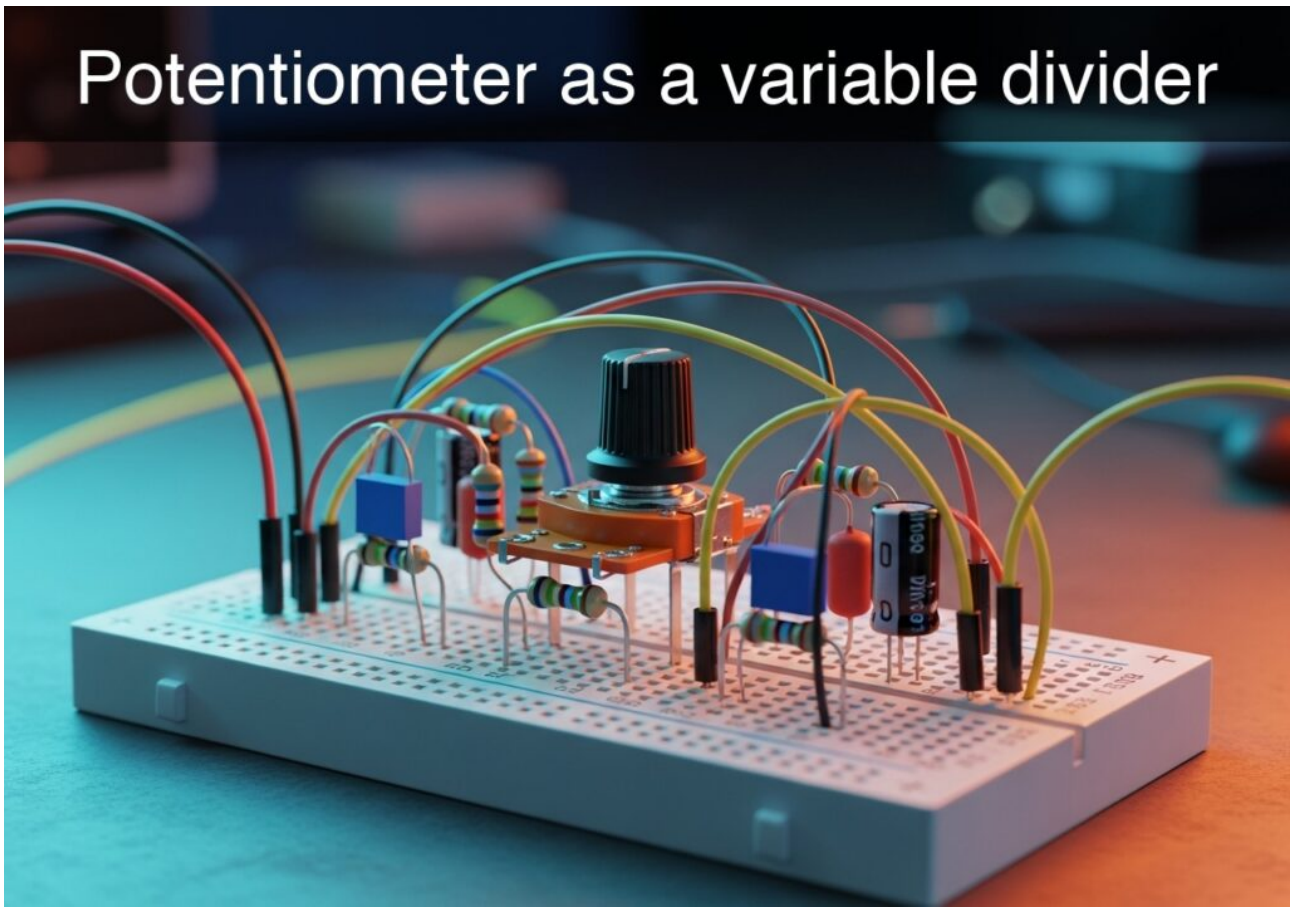


Master Analog Electronics by building a 4-bit DAC using a Resistor ladder. Create precise voltage steps from binary signals for audio synthesis and control.

Practical case: Unbalanced Wheatstone Bridge

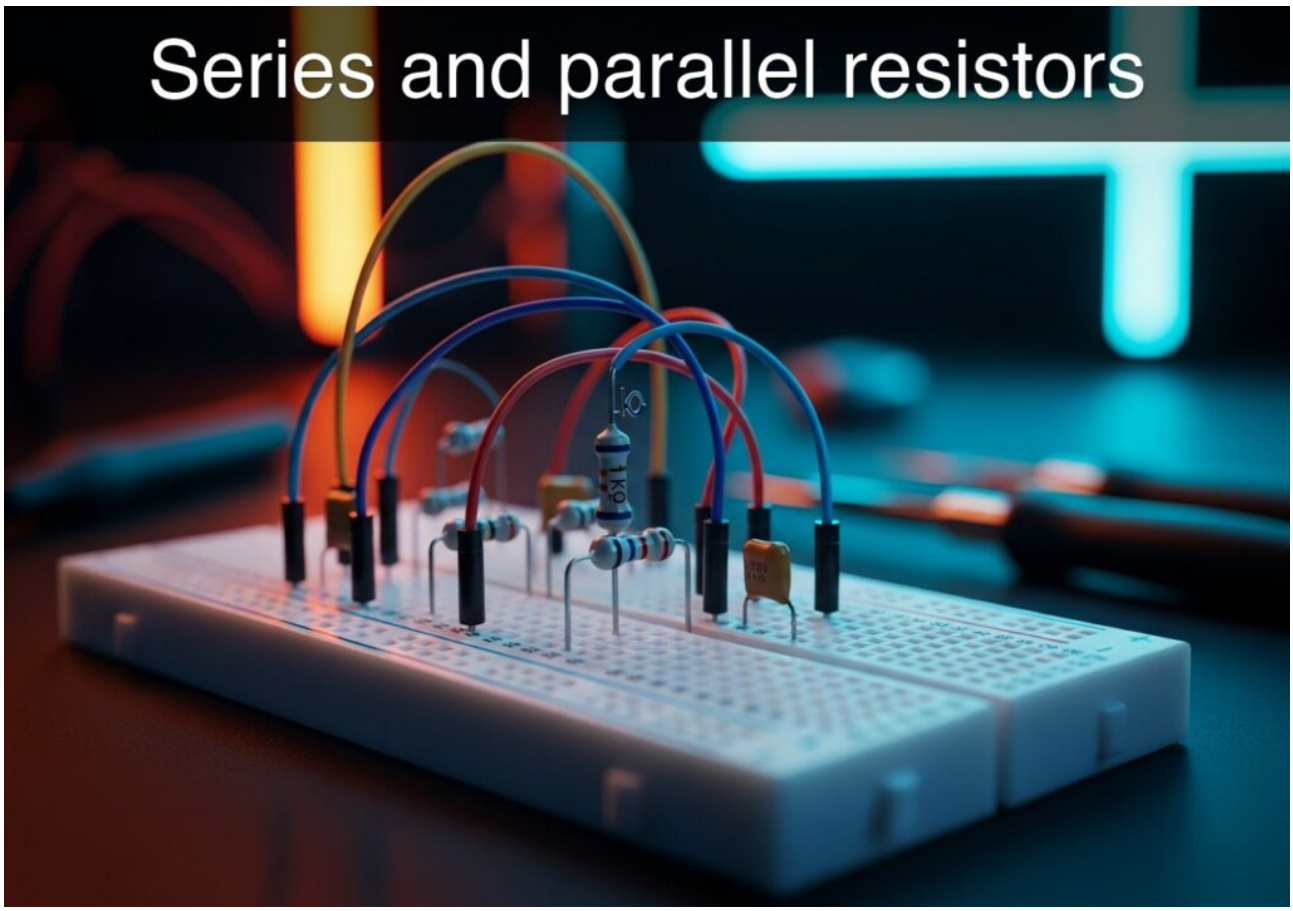
Master Analog Electronics by building a Wheatstone bridge with a Resistor sensor. Measure precise differential voltage changes and calibrate zero-point offsets.

Practical case: Potentiometer as a variable divider



Master Analog Electronics basics by building a variable voltage divider. Use a potentiometer as a variable Resistor to control output signals from 0V to 5V.

Practical case: Series and parallel resistors



Master Analog Electronics basics by building series and parallel Resistor circuits. Measure equivalent resistance to design precise voltage dividers and loads.