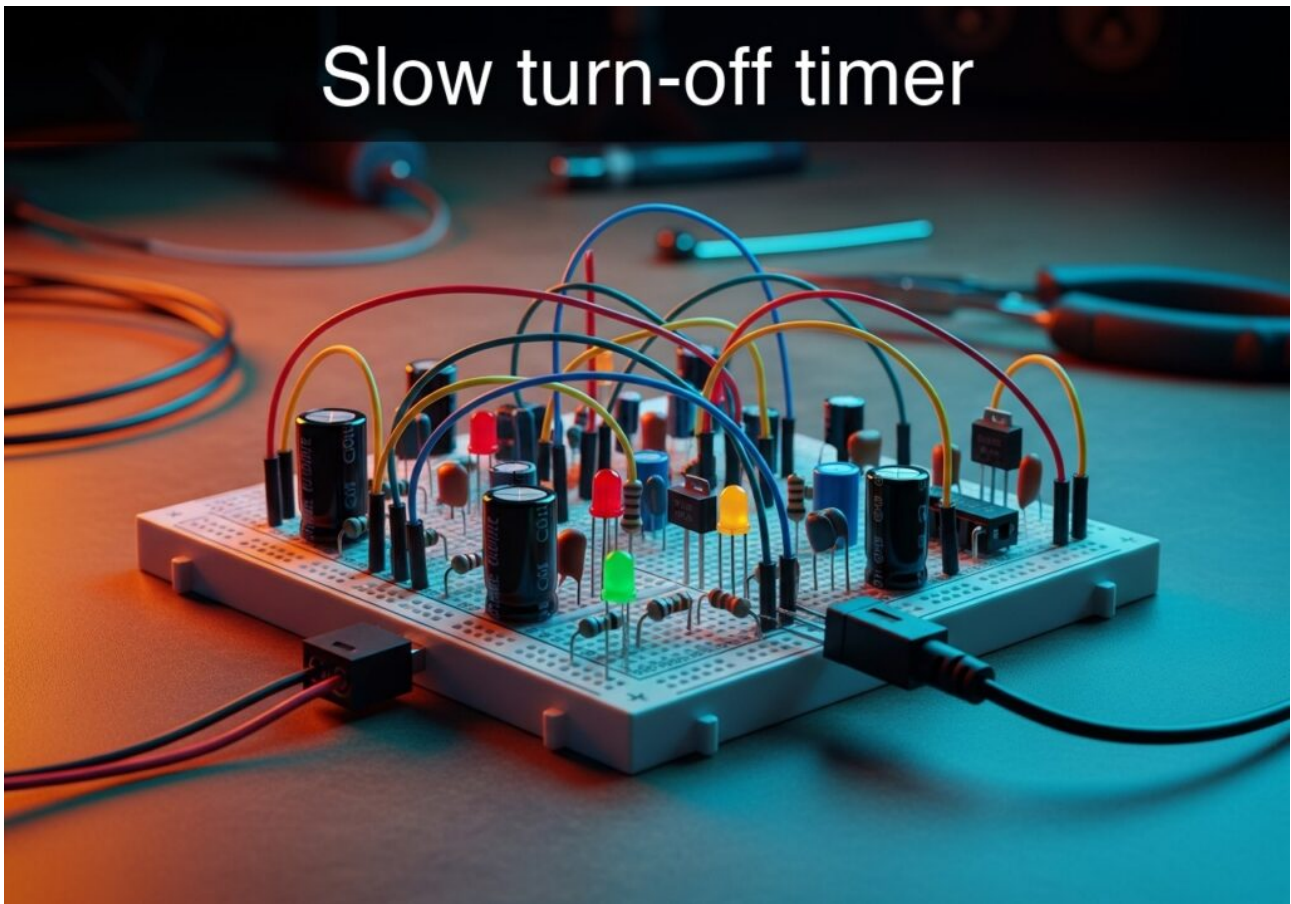


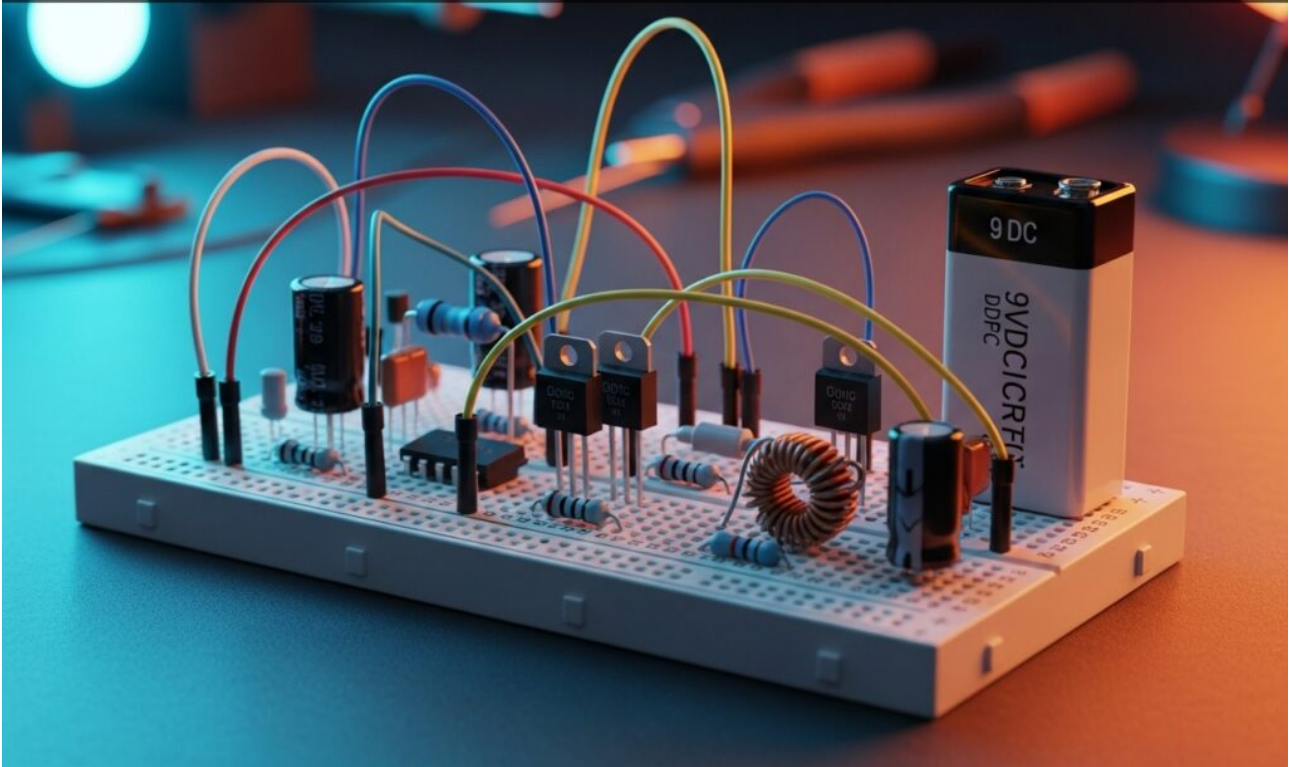
Practical case: Slow turn-off timer



Master Analog Electronics by building a fade-out LED circuit. Use a Transistor and capacitor to create a 5-second delay timer that mimics car interior lighting.

Practical case: Simple audio amplifier

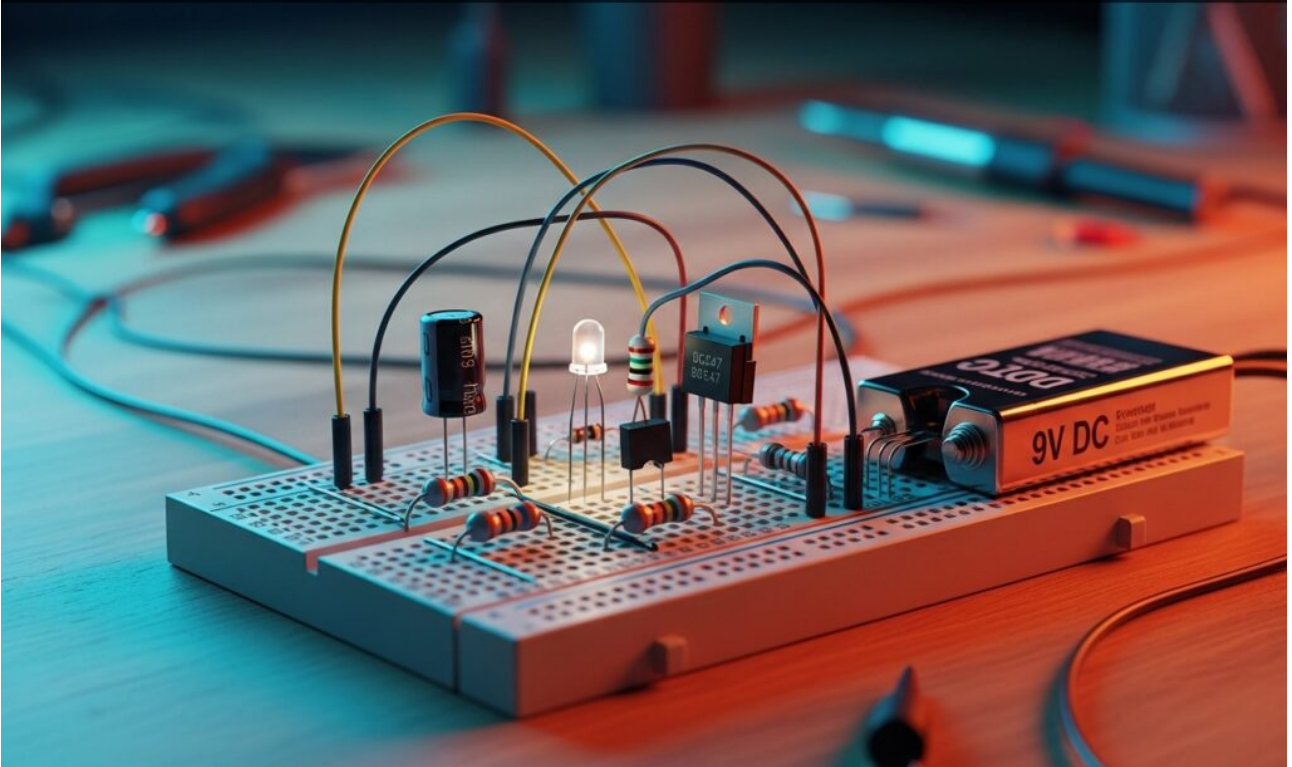
Simple audio amplifier



Master Analog Electronics by building a Class A amplifier. Use an NPN Transistor to boost weak audio signals and observe voltage gain with phase inversion.

Practical case: The transistor as a light switch

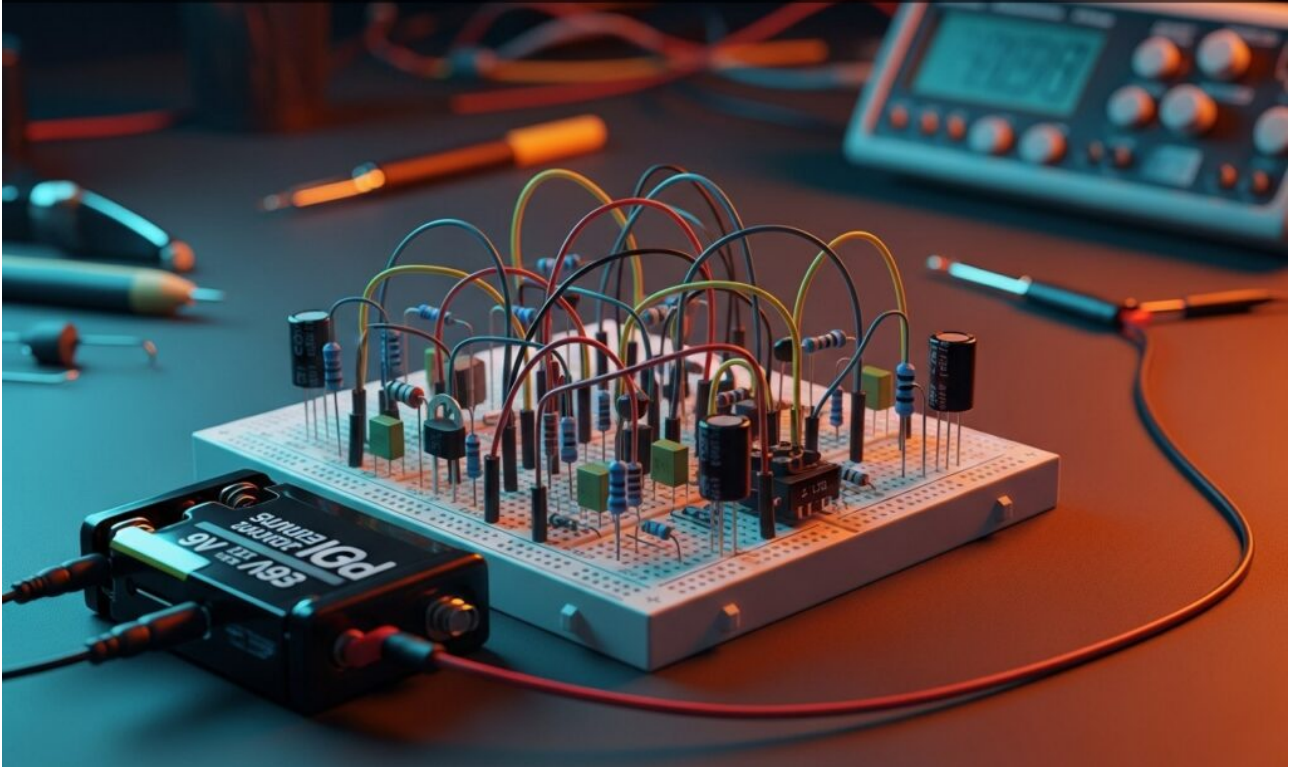
The transistor as a light switch



Master Analog Electronics by building a Transistor switch circuit. Learn to control high-current loads like LEDs and measure saturation voltage drops.

Practical case: Simple Transistor Timer

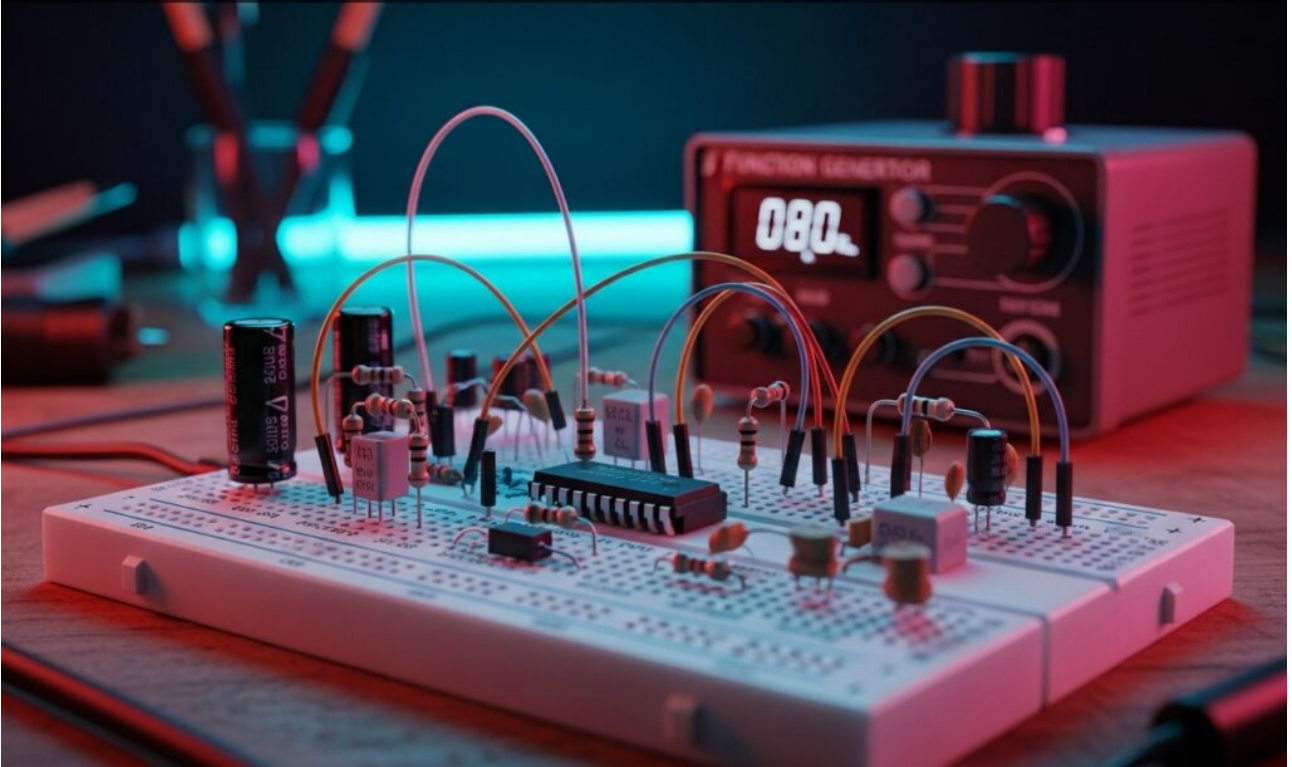
Simple Transistor Timer



Learn Analog Electronics by building a practical off-delay timer. Use a Capacitor to control transistor switching and create custom lighting fade-out effects.

Practical case: DC blocking

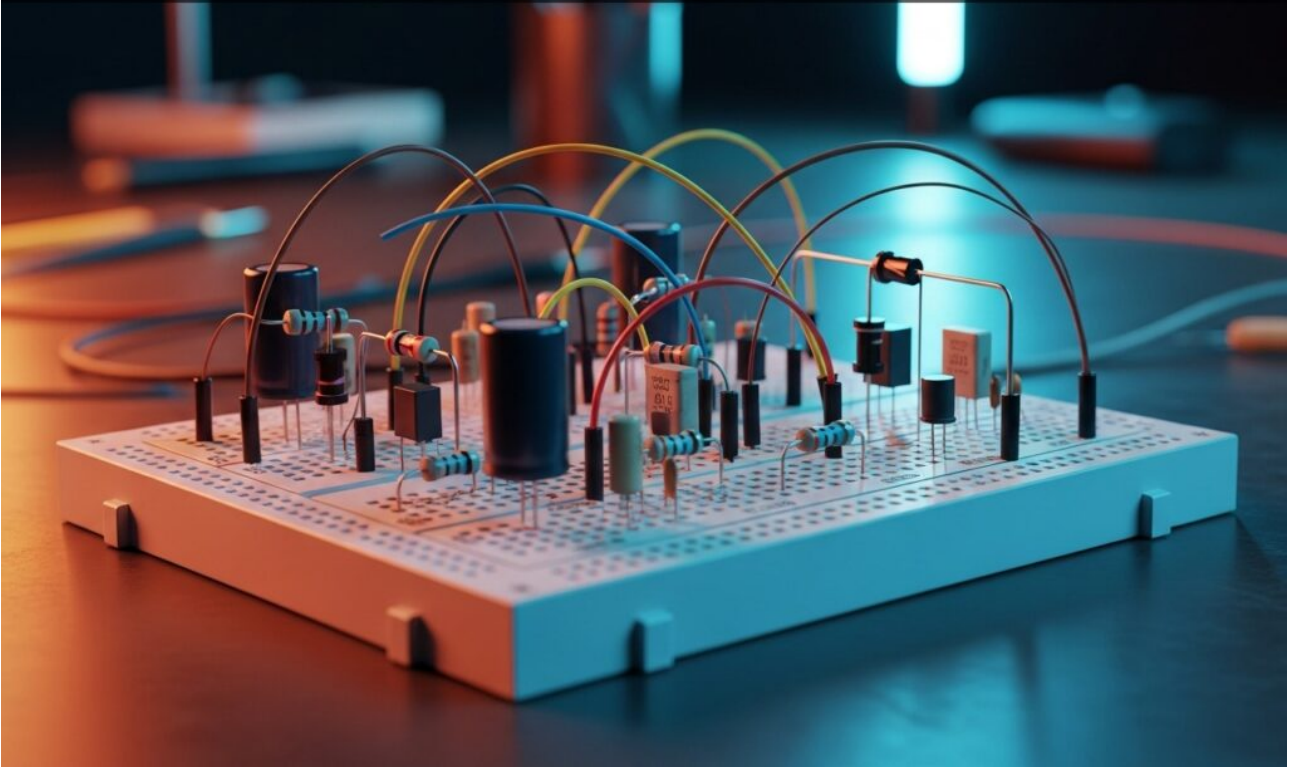
DC blocking



Master Analog Electronics by building a coupling circuit with a Capacitor. Learn to block DC offsets while passing AC audio signals for clear, centered output.

Practical case: Basic rectifier filtering

Basic rectifier filtering



Master Analog Electronics by building a rectifier circuit. See how a Capacitor transforms AC ripple into steady DC voltage for reliable power supplies.