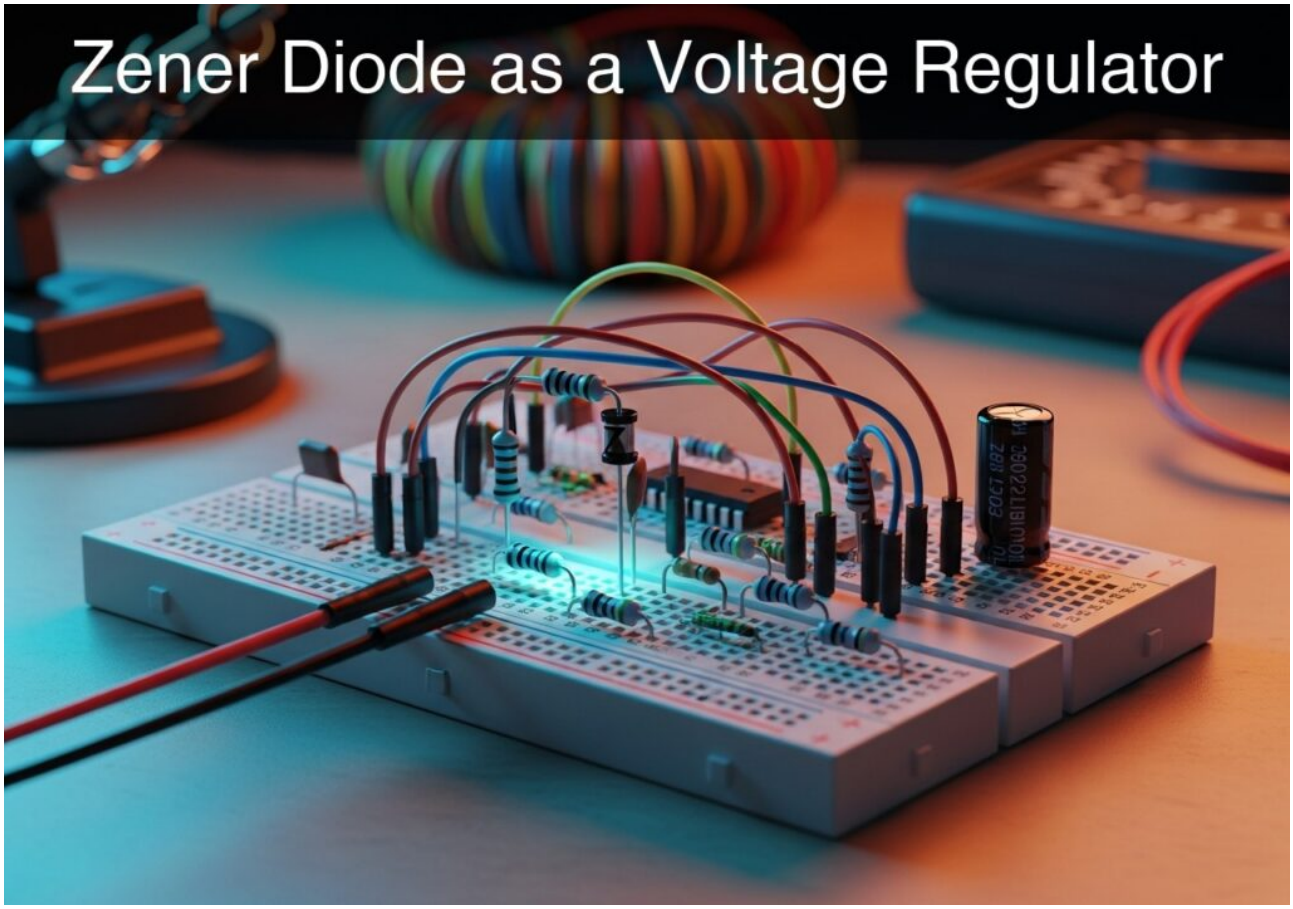
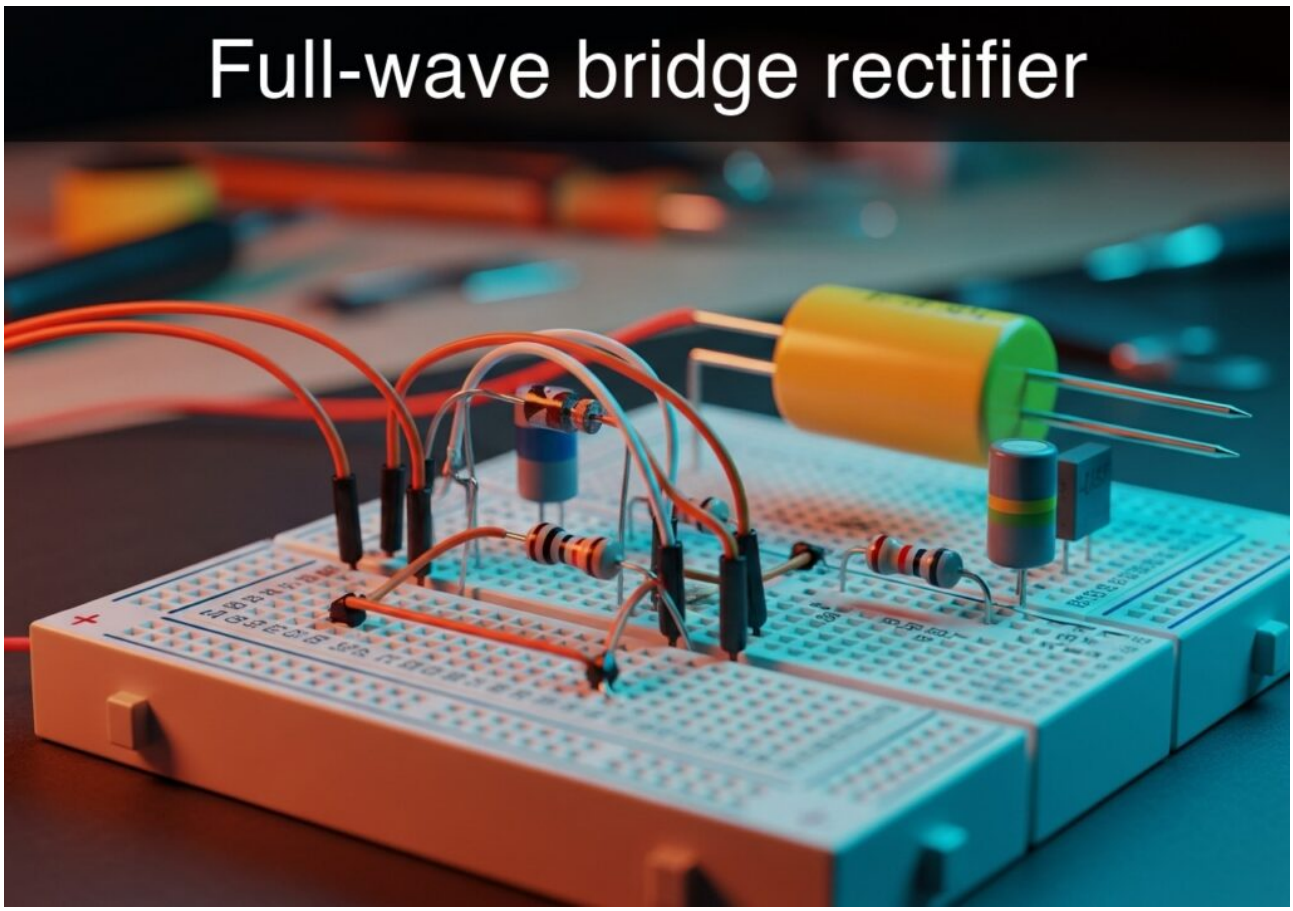
Practical case: Zener Diode as a Voltage Regulator



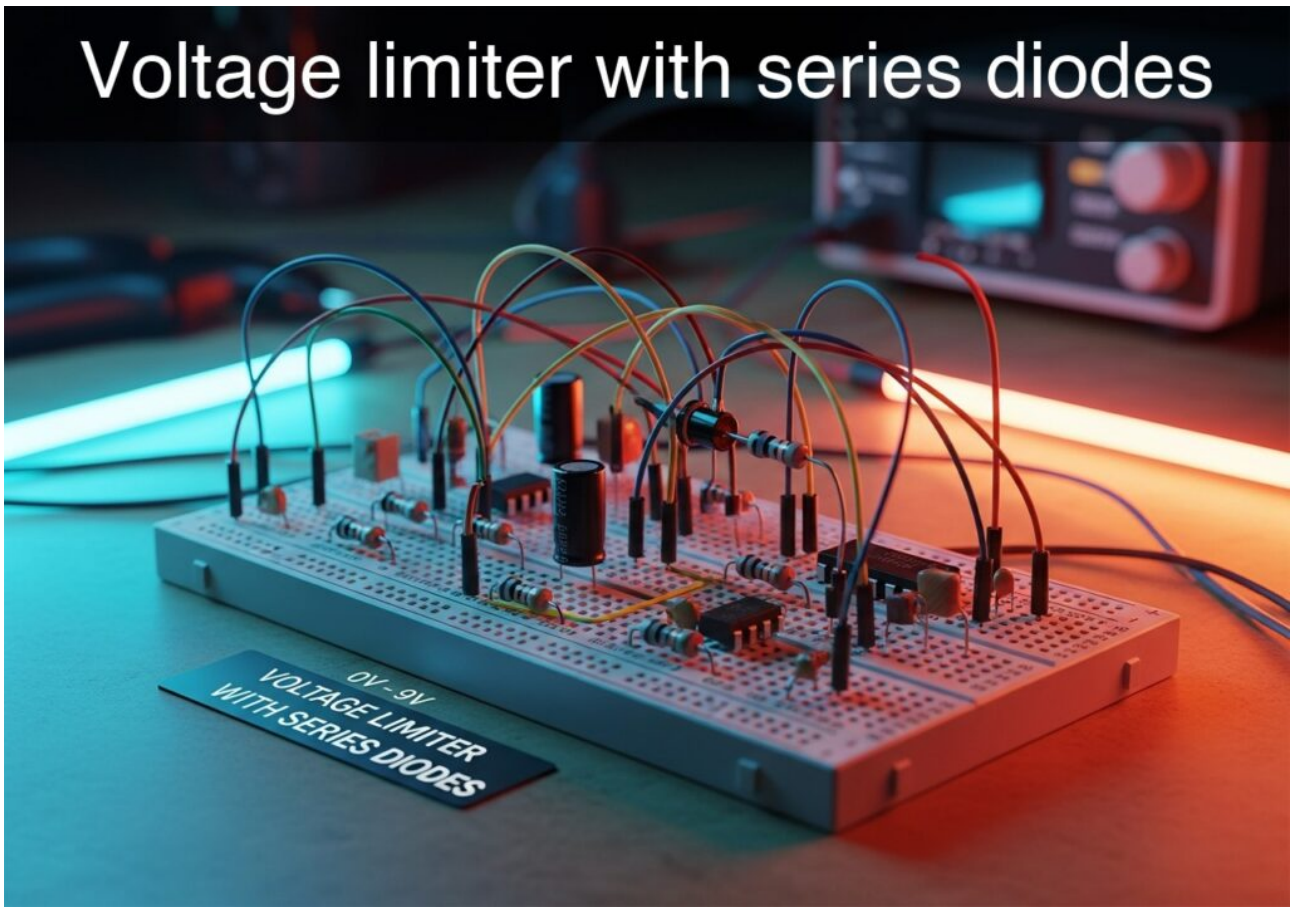
Master Analog Electronics by designing a Zener Diode voltage stabilizer. Build a circuit to clamp output at 5.1V and protect loads from voltage spikes.

Practical case: Full-wave bridge rectifier



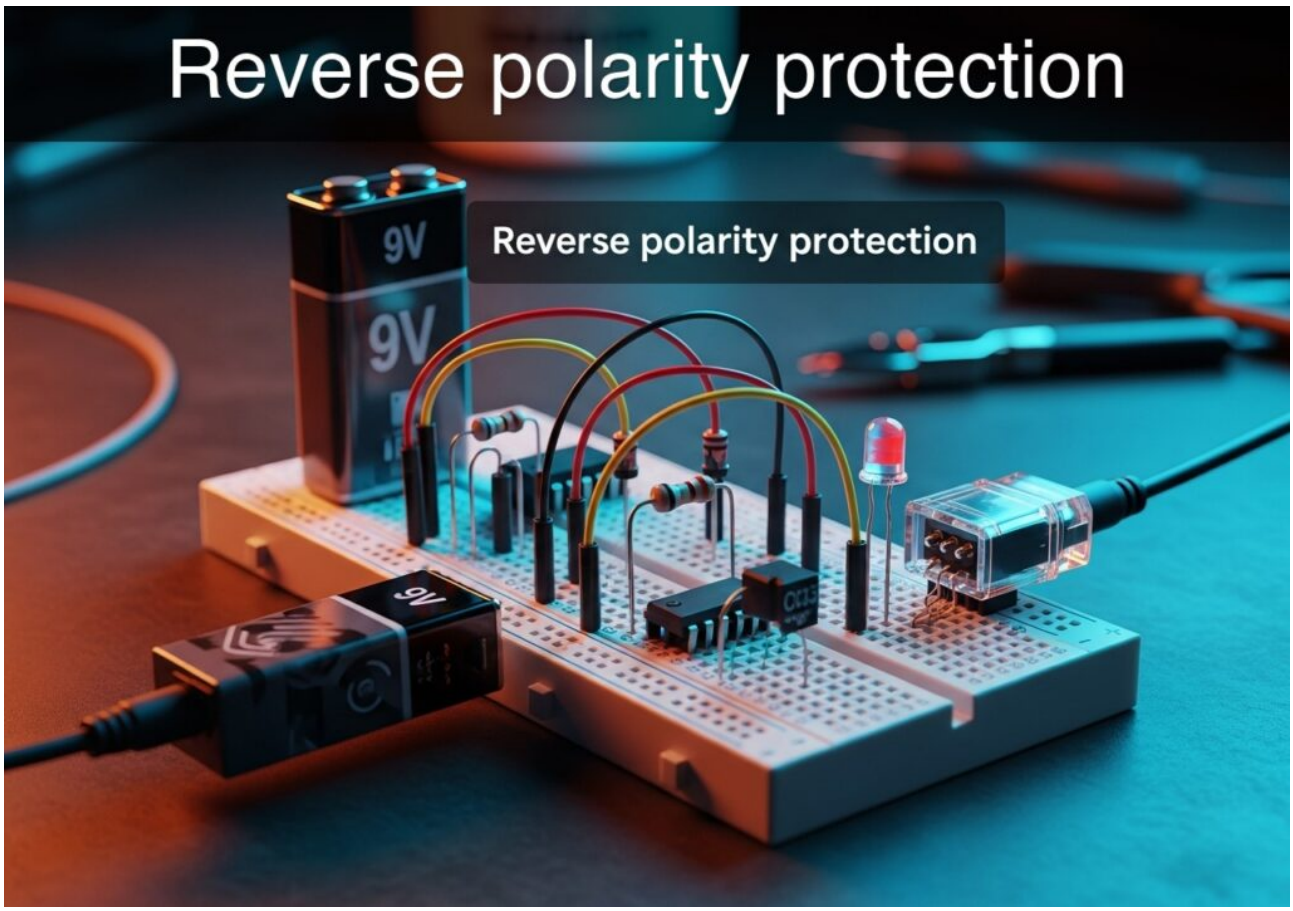
Master Analog Electronics by building a Diode Graetz bridge. Convert AC to pulsating DC, double the frequency to 120Hz, and measure real voltage drops.

Practical case: Voltage limiter with series diodes



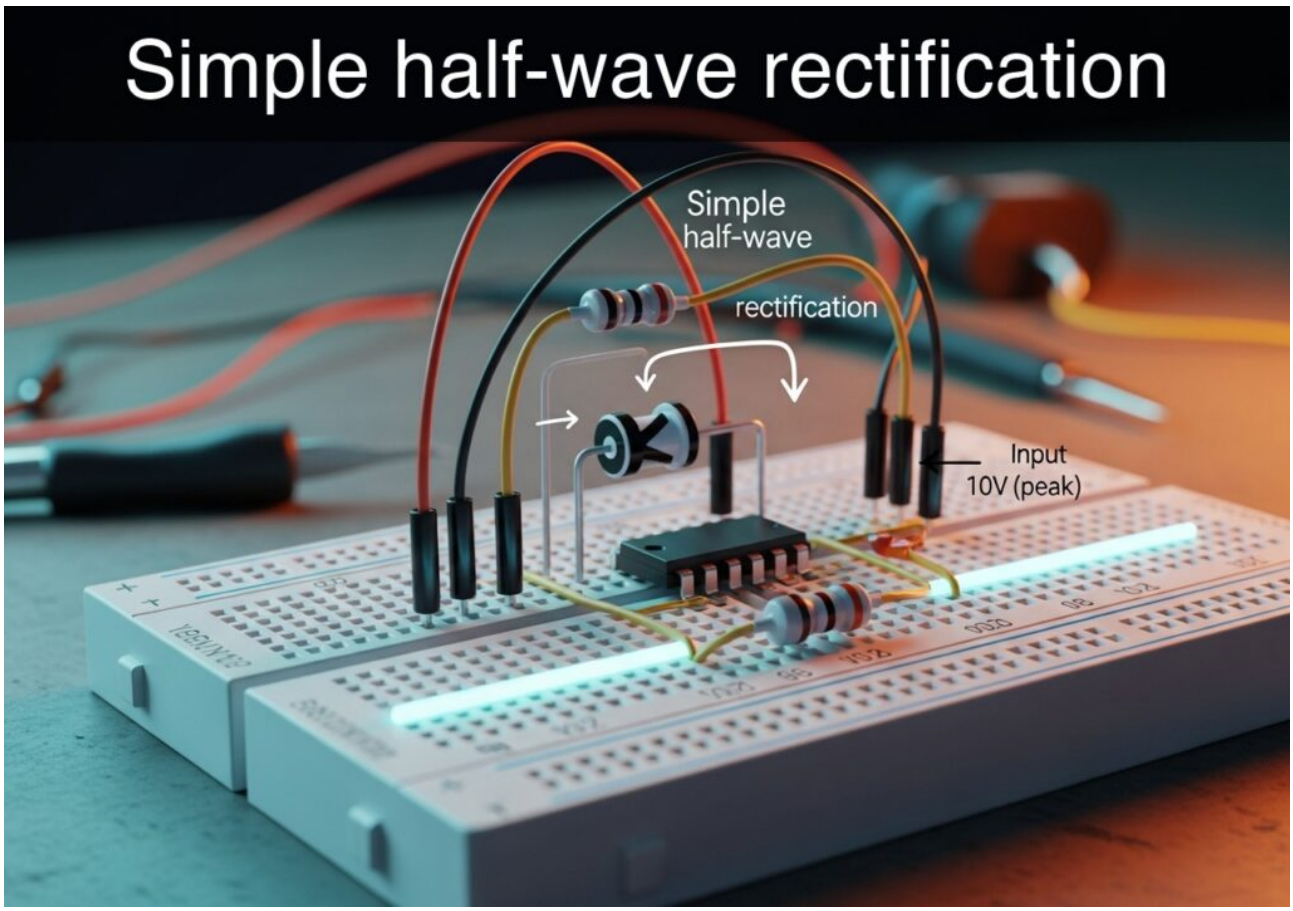
Master Analog Electronics by building a voltage limiter with a simple Diode circuit. Protect inputs and clamp signals to 2.1V for safe, stable output results.

Practical case: Reverse polarity protection



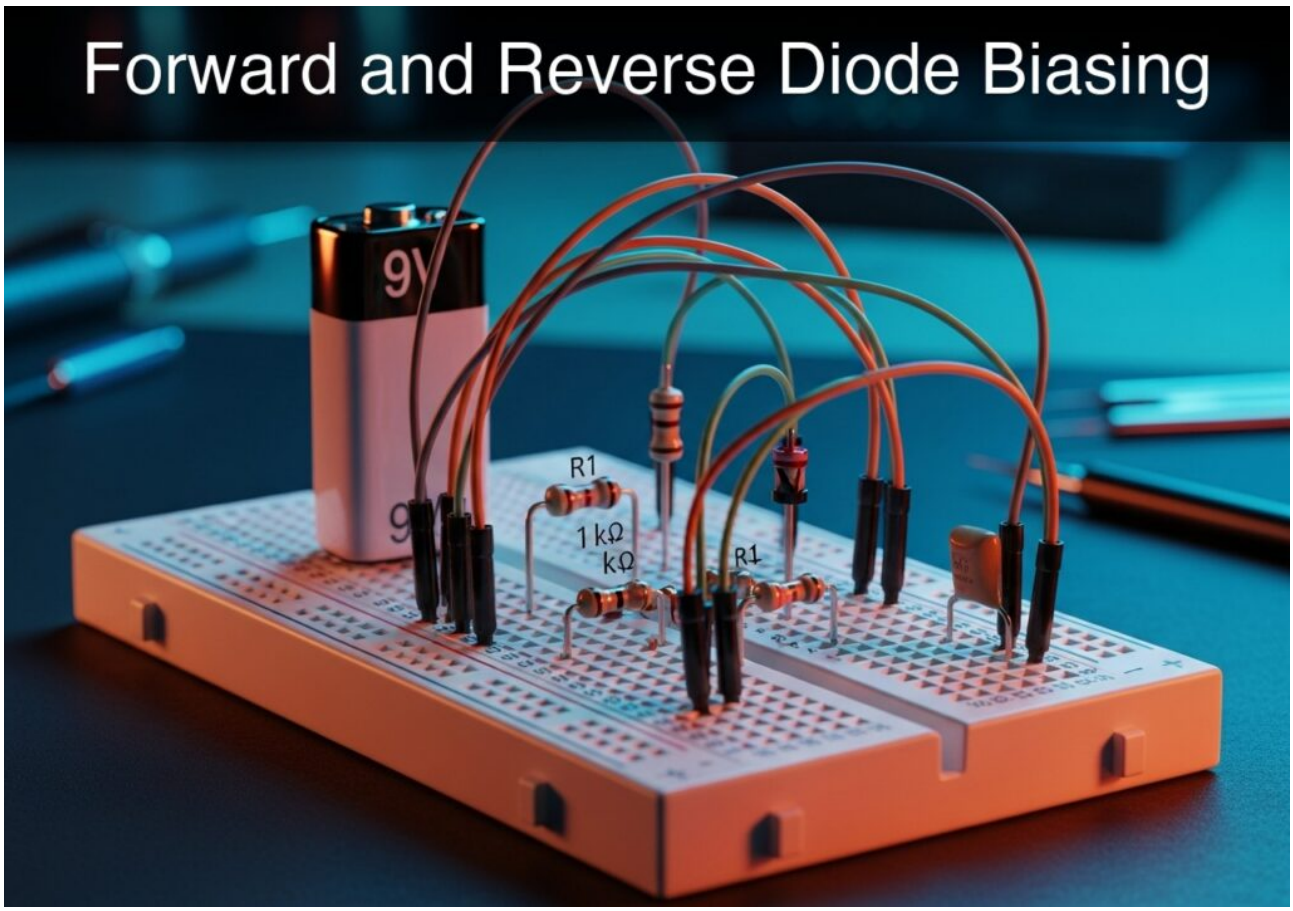
Learn Analog Electronics by building a Diode protection circuit for a DC motor. Prevent damage from reverse polarity and measure the 0.7V voltage drop.

Practical case: Simple half-wave rectification



Master Analog Electronics by building a half-wave rectifier using a Diode. Convert AC to pulsating DC and visualize signal clipping on your oscilloscope.

Practical case: Forward and Reverse Diode Biasing



Master Analog Electronics by building a Diode circuit to verify unidirectional current flow. Measure 0.7V drops and block reverse polarity in this lab.