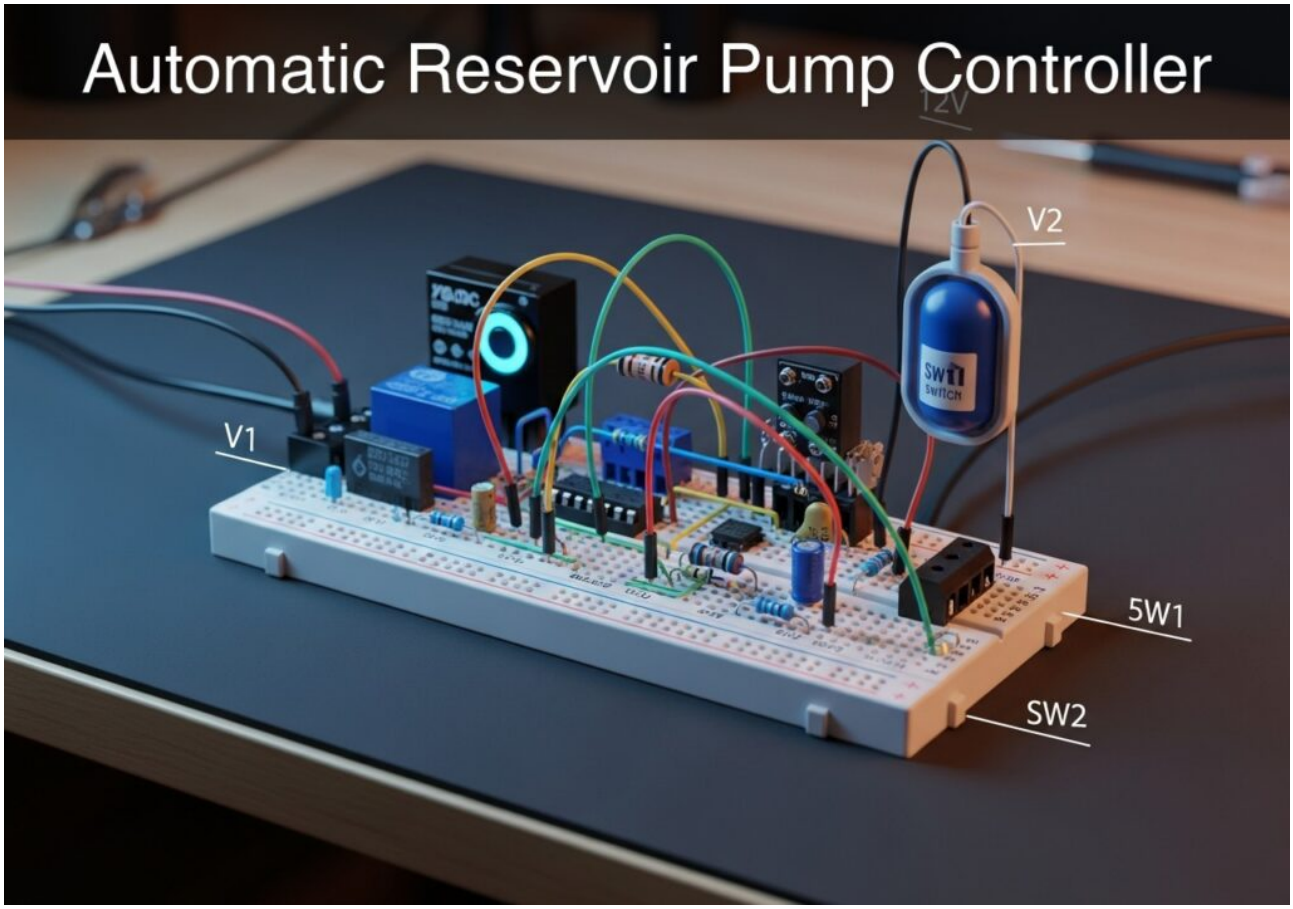
Practical case: Automatic Reservoir Pump Controller

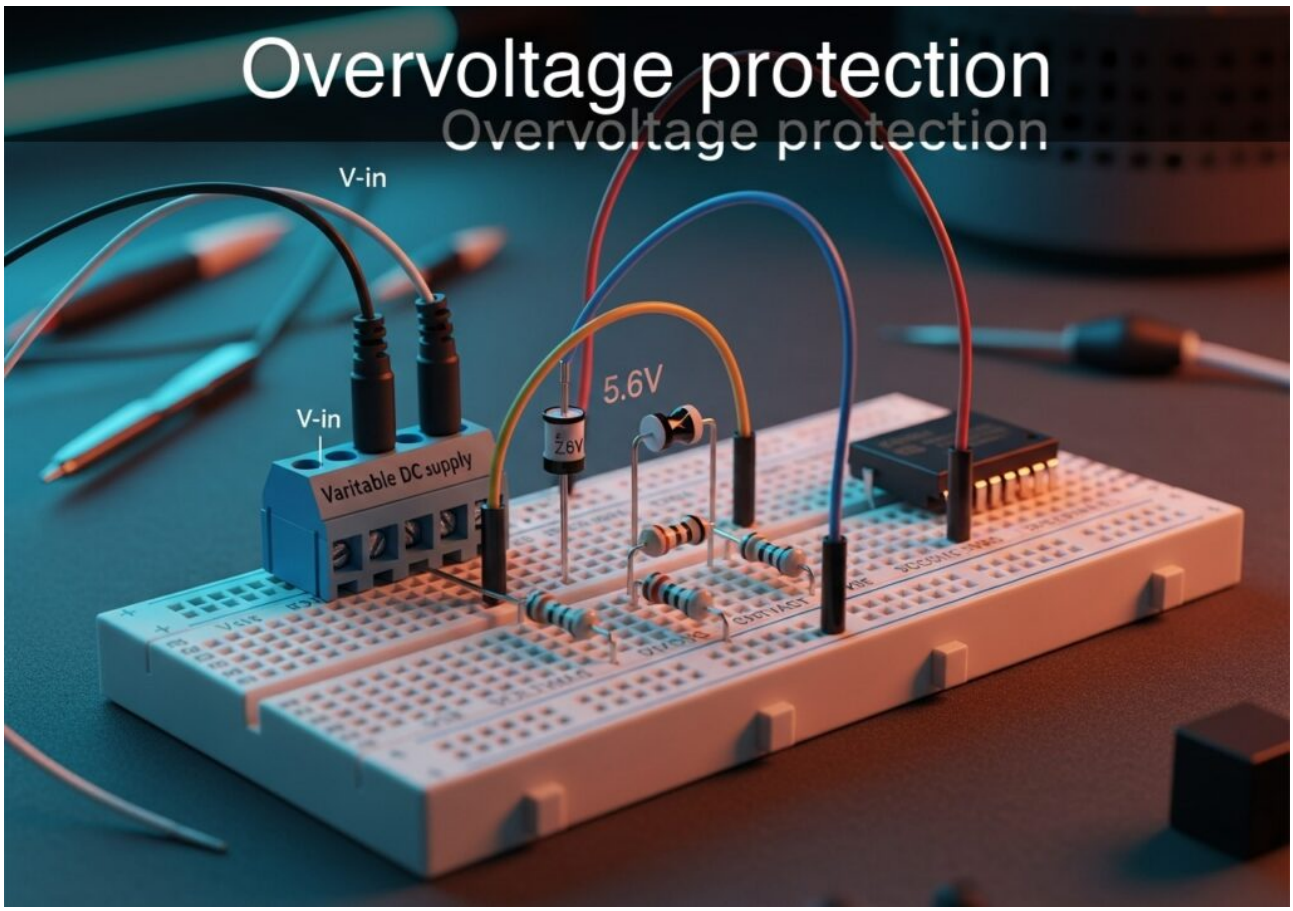


Level: Medium | Construct a transistor-driven relay circuit to automatically control a water pump using a float switch.

Objective and use case

In this…

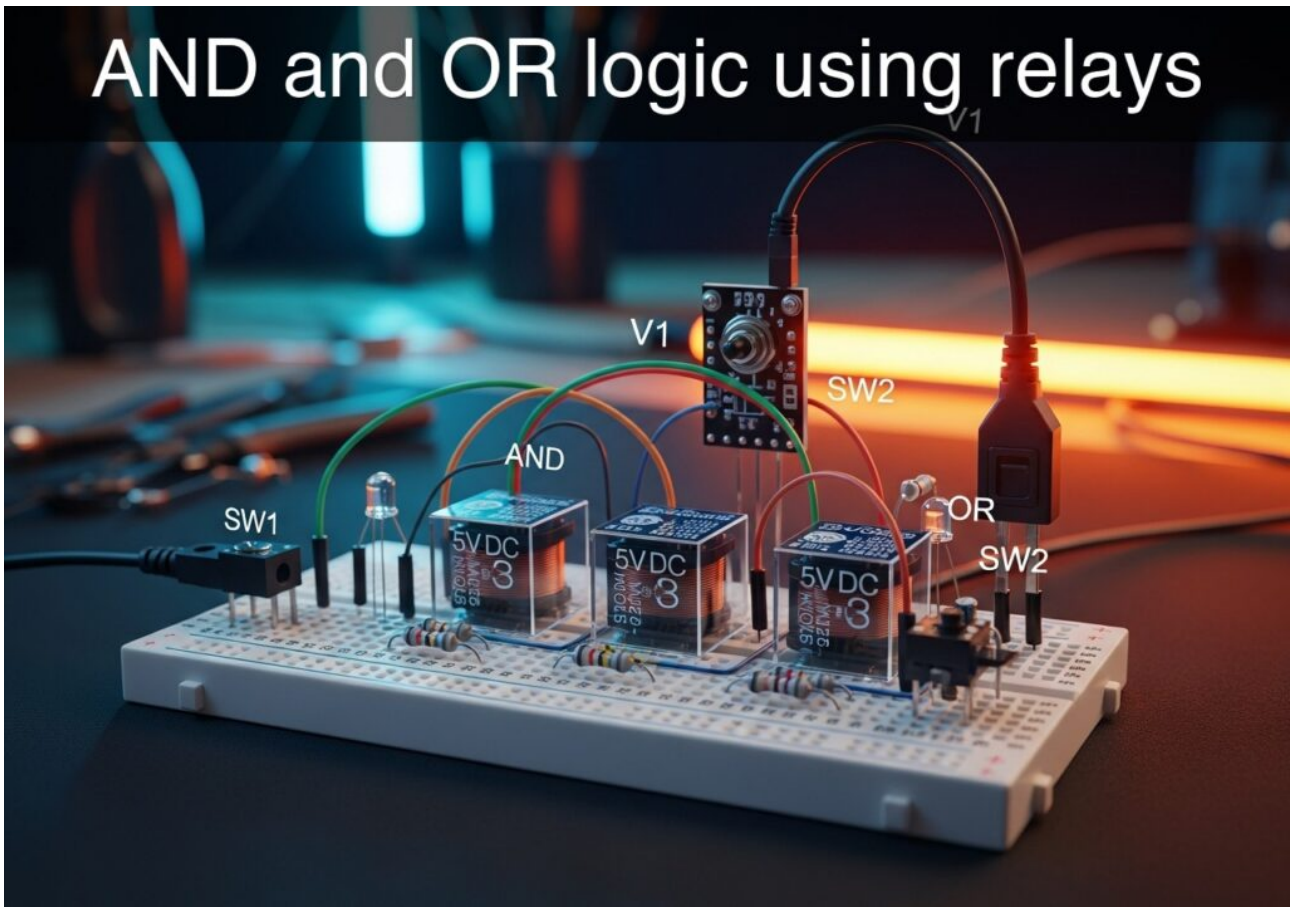
Practical case: Overvoltage protection



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

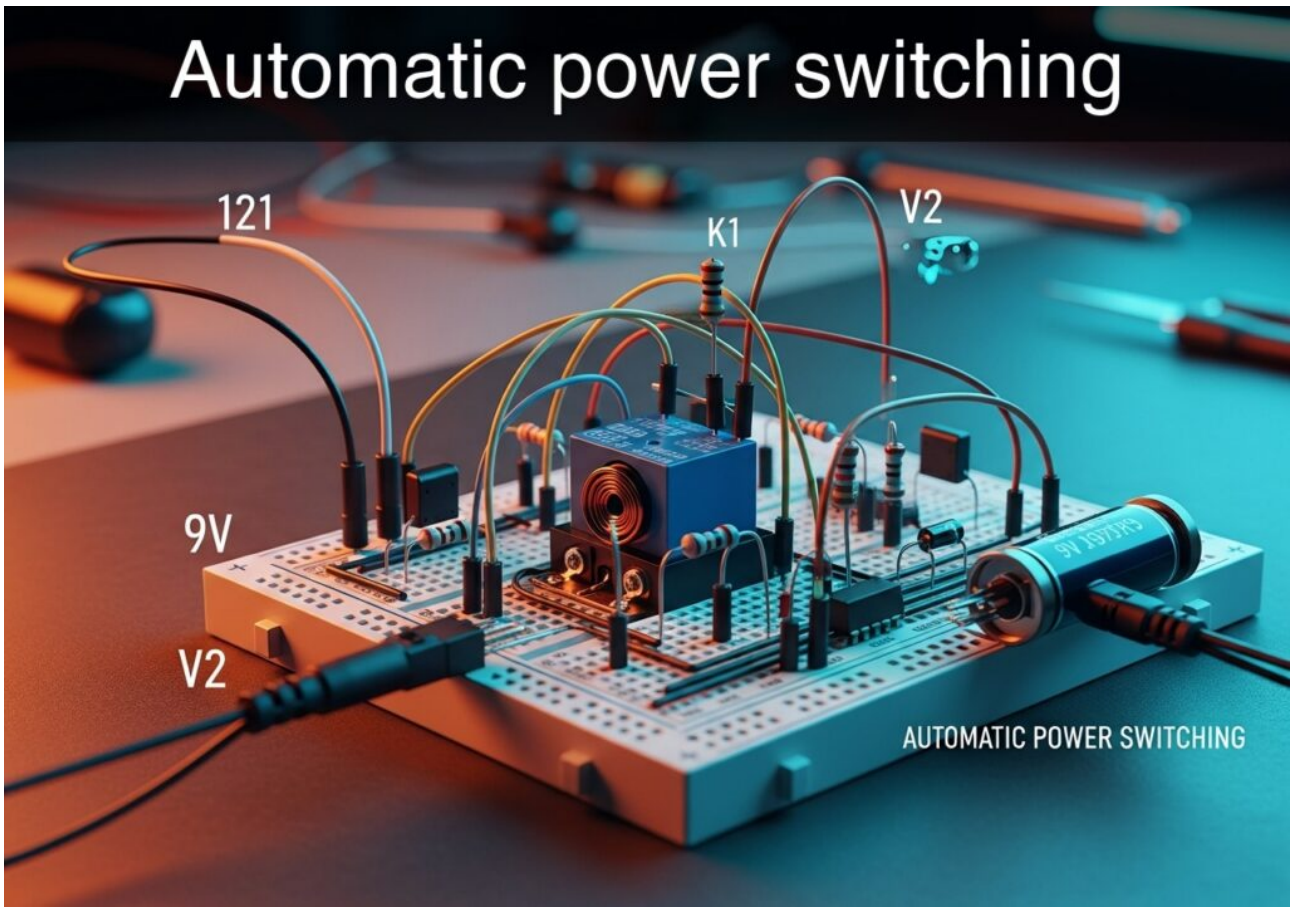


Level: Medium – Build basic logic gates by wiring the contacts of multiple relays in series and parallel.

Objective and use case

* **What you will…

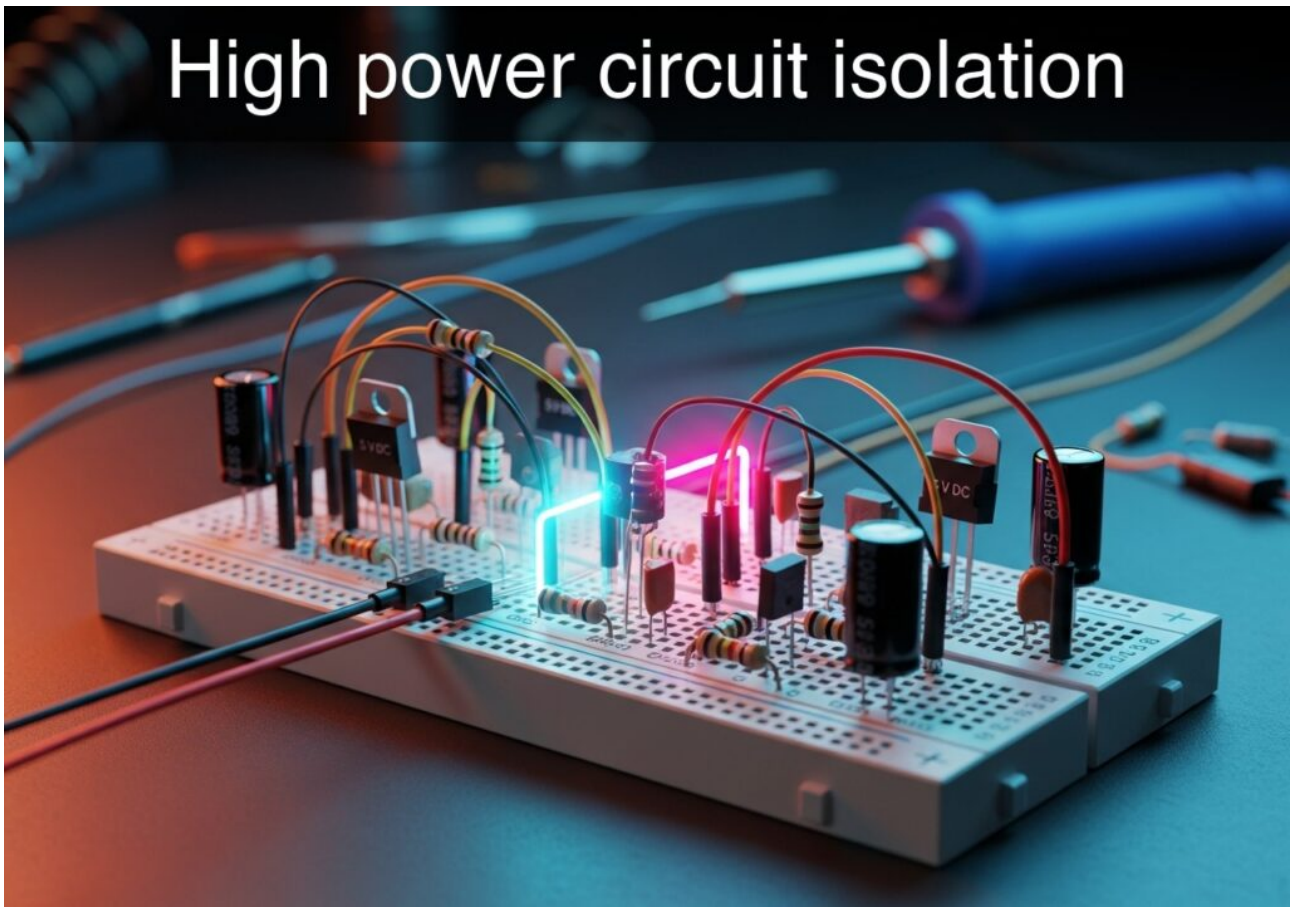
Practical case: Automatic power switching



Level: Medium – Implement an SPDT relay to automatically alternate between a main power supply and a backup battery.

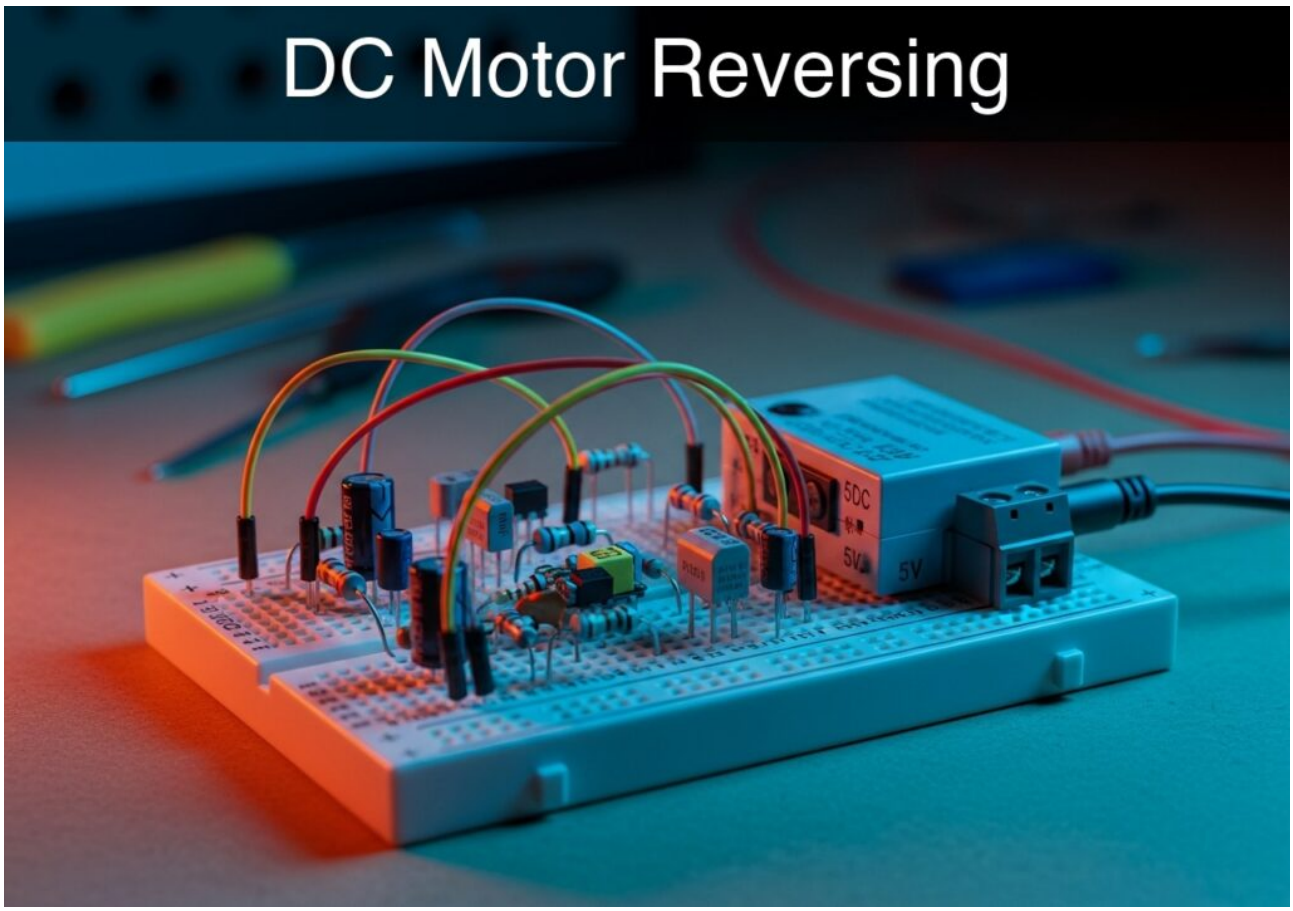
Objective and use case
In this…

Practical case: High power circuit isolation



Master Analog Electronics by building a Relay driver circuit. Learn to safely switch high-power loads with low-voltage signals and verify galvanic isolation.

Practical case: DC Motor Reversing



Master Analog Electronics by building a Relay H-bridge to control DC motor direction. Learn to switch polarity for clockwise spin, reverse motion, and braking.