

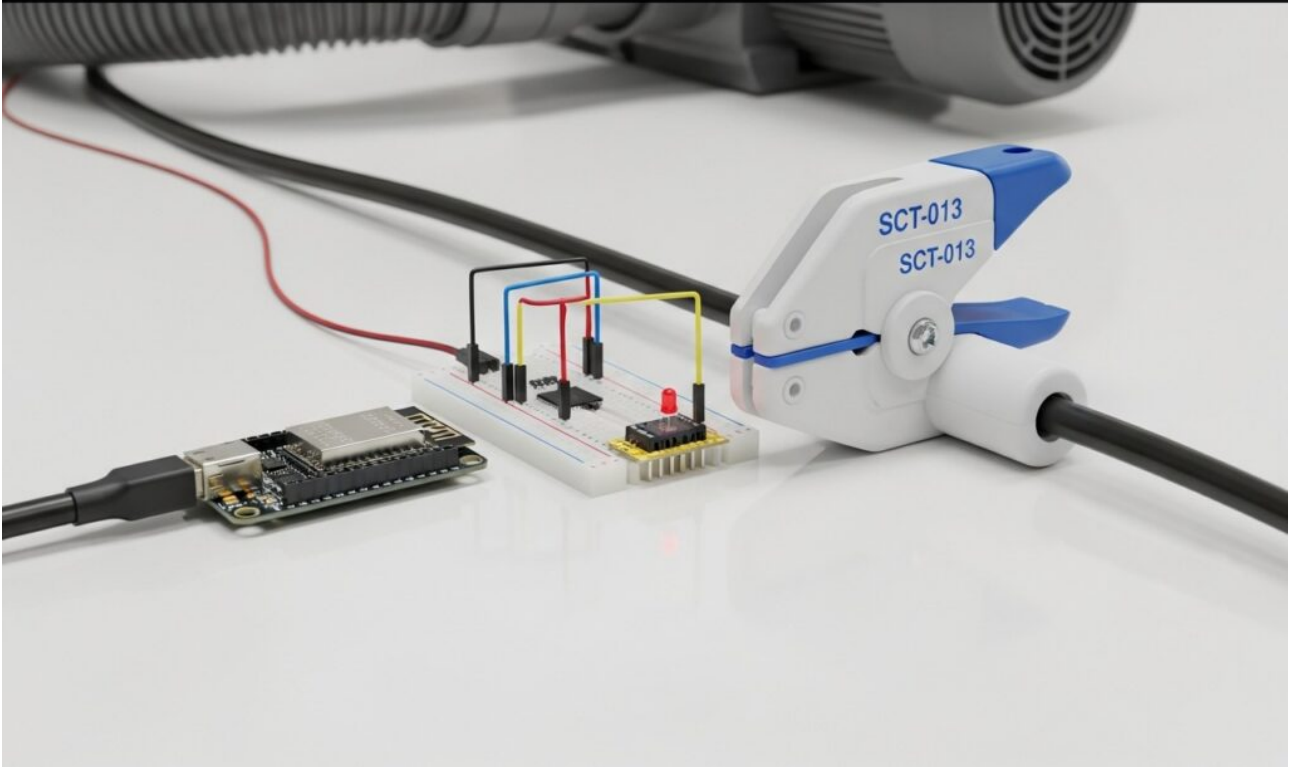
Practical case: People Counter with ESP32



You will build a directional doorway people counter using dual infrared IR break-beam sensors to track individuals entering and exiting a room, broadcasting...

Practical case: ESP32 AC Current Monitor

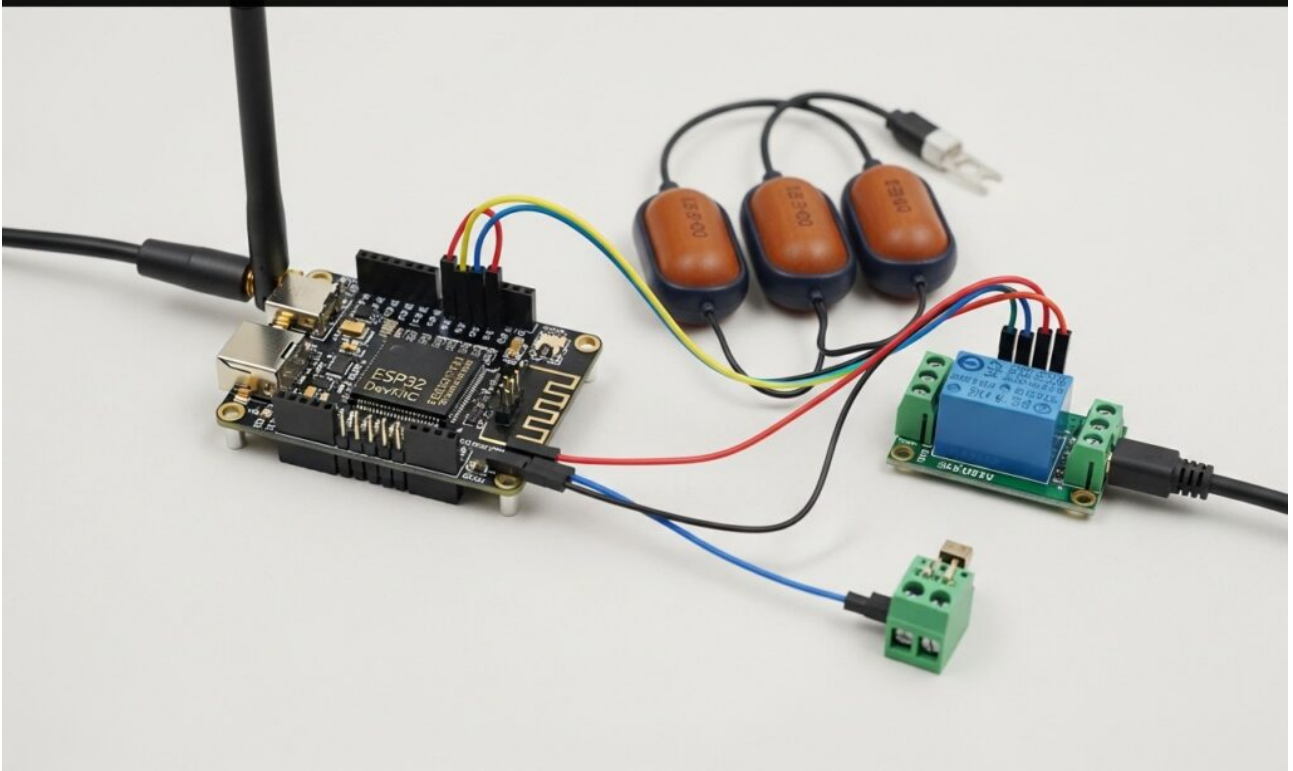
ESP32 AC Current Monitor



A non-invasive dust collector current monitor that logs the AC power draw of your workshop's dust collection system to establish a baseline electrical usage...

Practical case: ESP32 Water Pump Controller

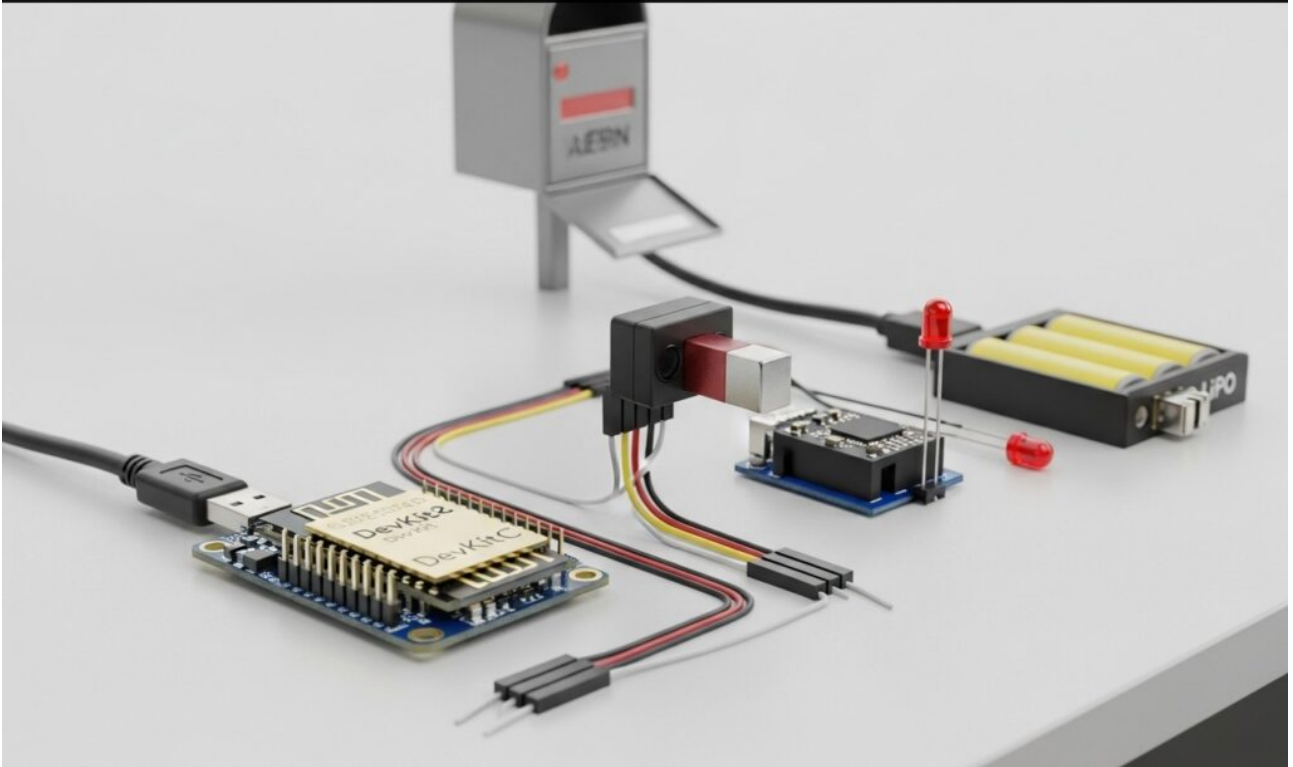
ESP32 Water Pump Controller



A smart, web-enabled water pump controller that monitors tank levels via physical float switches and automatically cuts power to prevent catastrophic...

Practical case: IoT Mailbox Monitor with ESP32

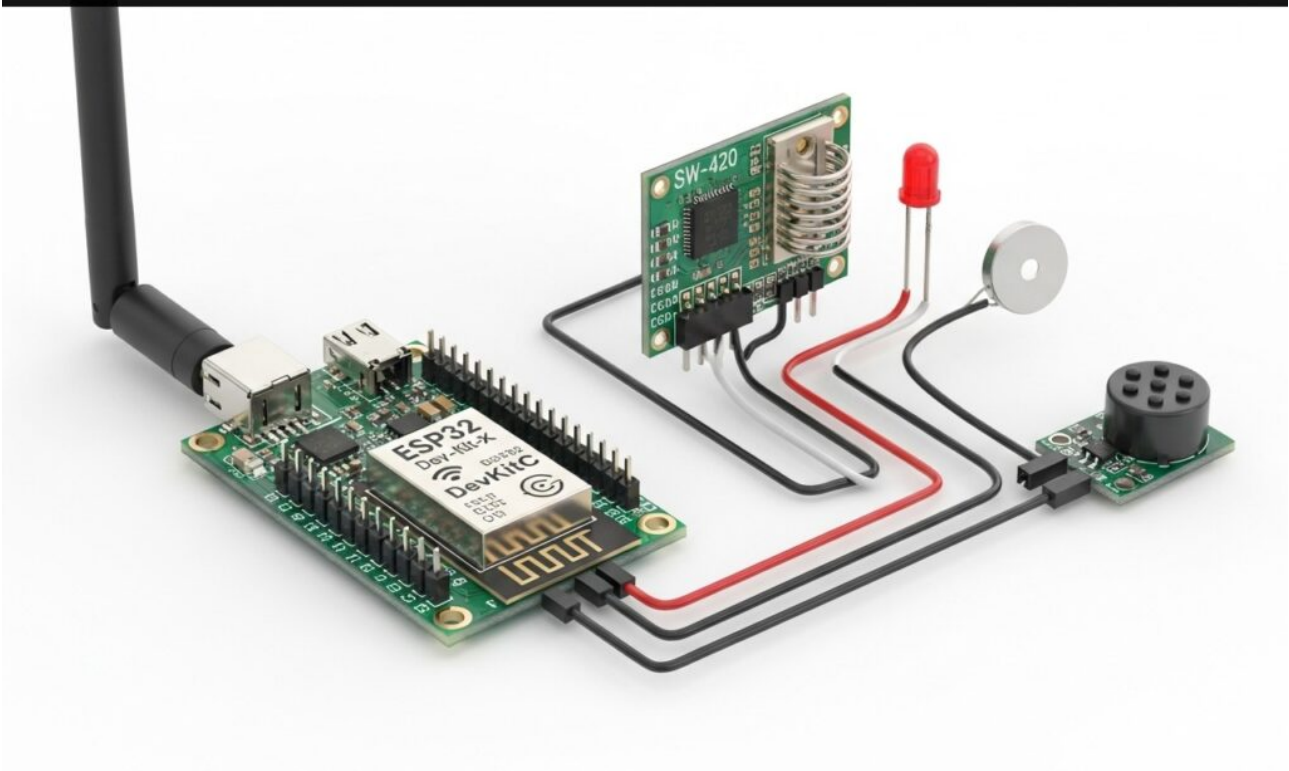
IoT Mailbox Monitor with ESP32



A battery-powered, highly efficient IoT mailbox monitor that remains in a micro-power deep sleep state, wakes up instantly when the mailbox door opens,...

Practical case: ESP32 Washing Machine Monitor

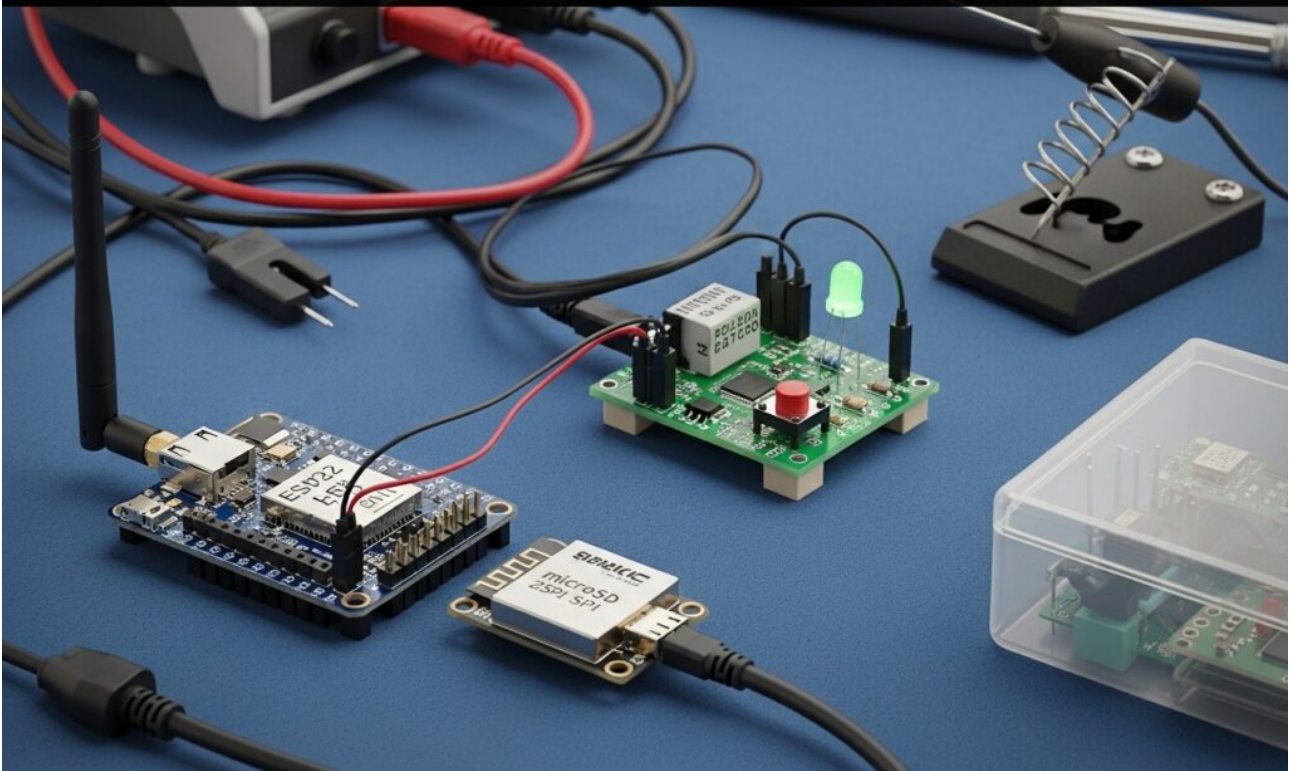
ESP32 Washing Machine Monitor



A non-invasive laundry machine monitor using an ESP32 and SW-420 vibration sensor that detects when a wash cycle finishes. It uses edge-based timeout logic...

Practical case: ESP32 Contact Logger

ESP32 Contact Logger



A standalone, network-attached ESP32 event logger that records physical dry-contact closures to a microSD card and hosts a built-in web server for remote CSV...