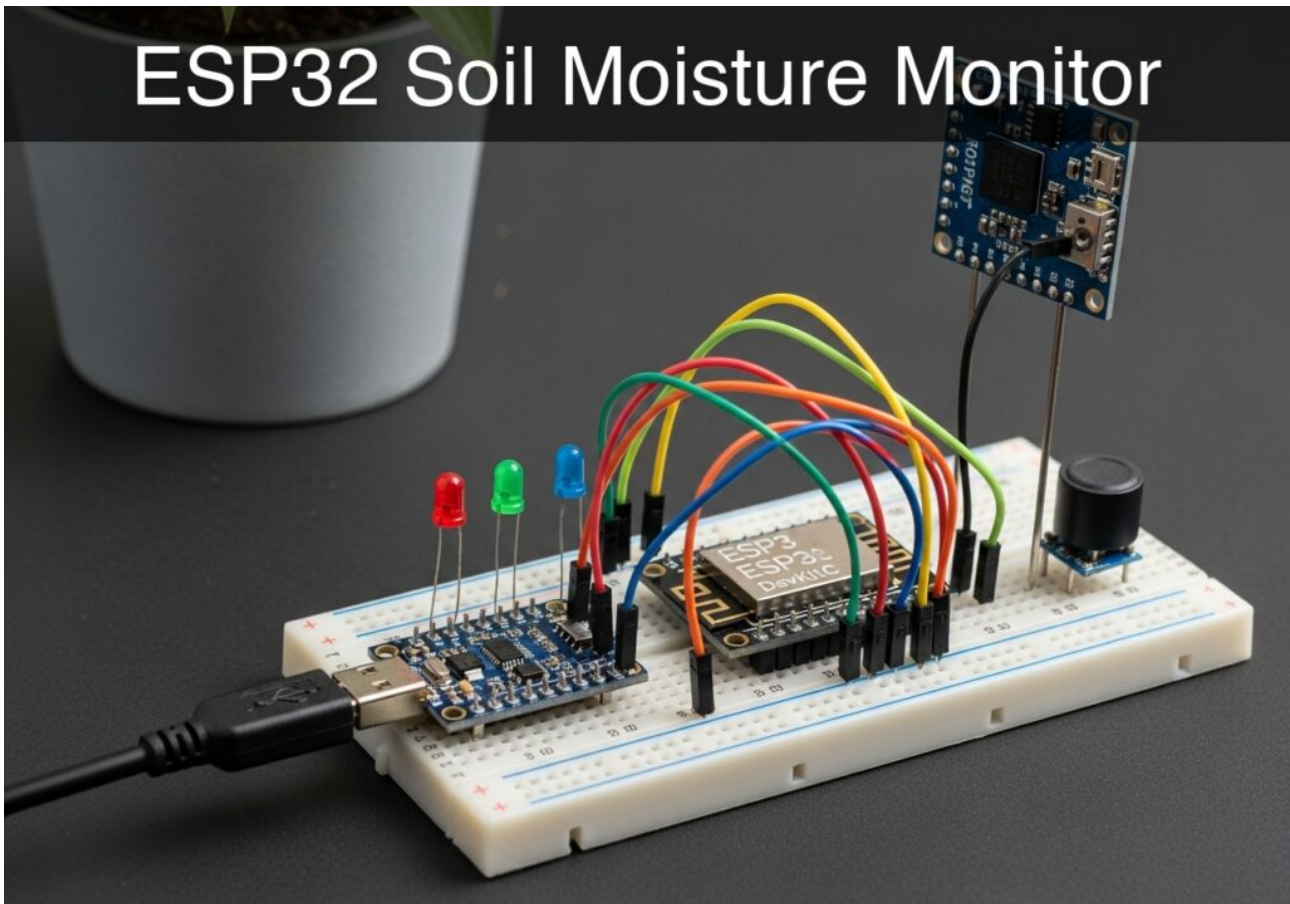


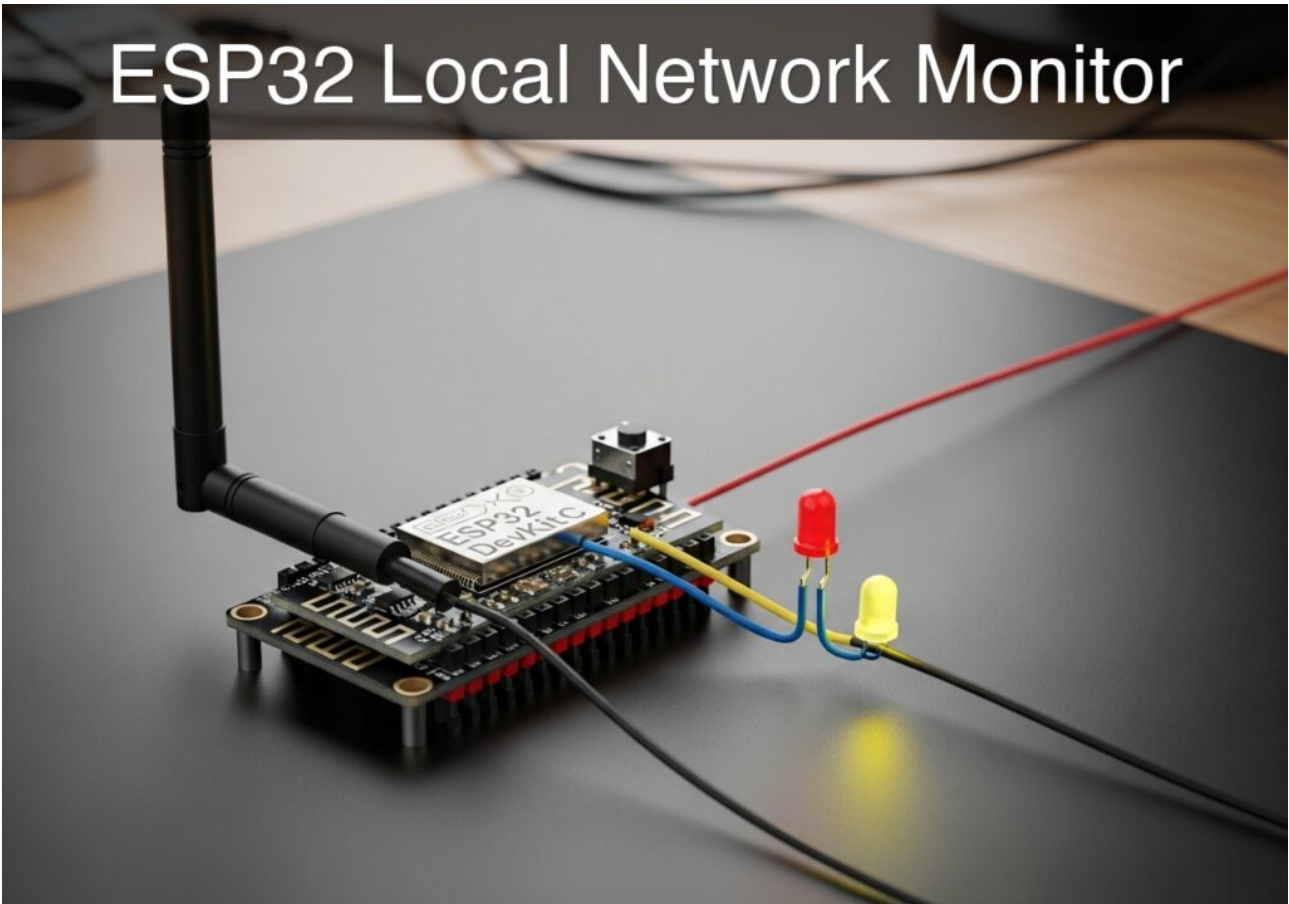
Practical case: ESP32 Soil Moisture Monitor



A continuous plant hydration monitor that measures soil moisture using an analog capacitive sensor, triggering local visual and audible alerts when watering...

Practical case: ESP32 Local Network Monitor

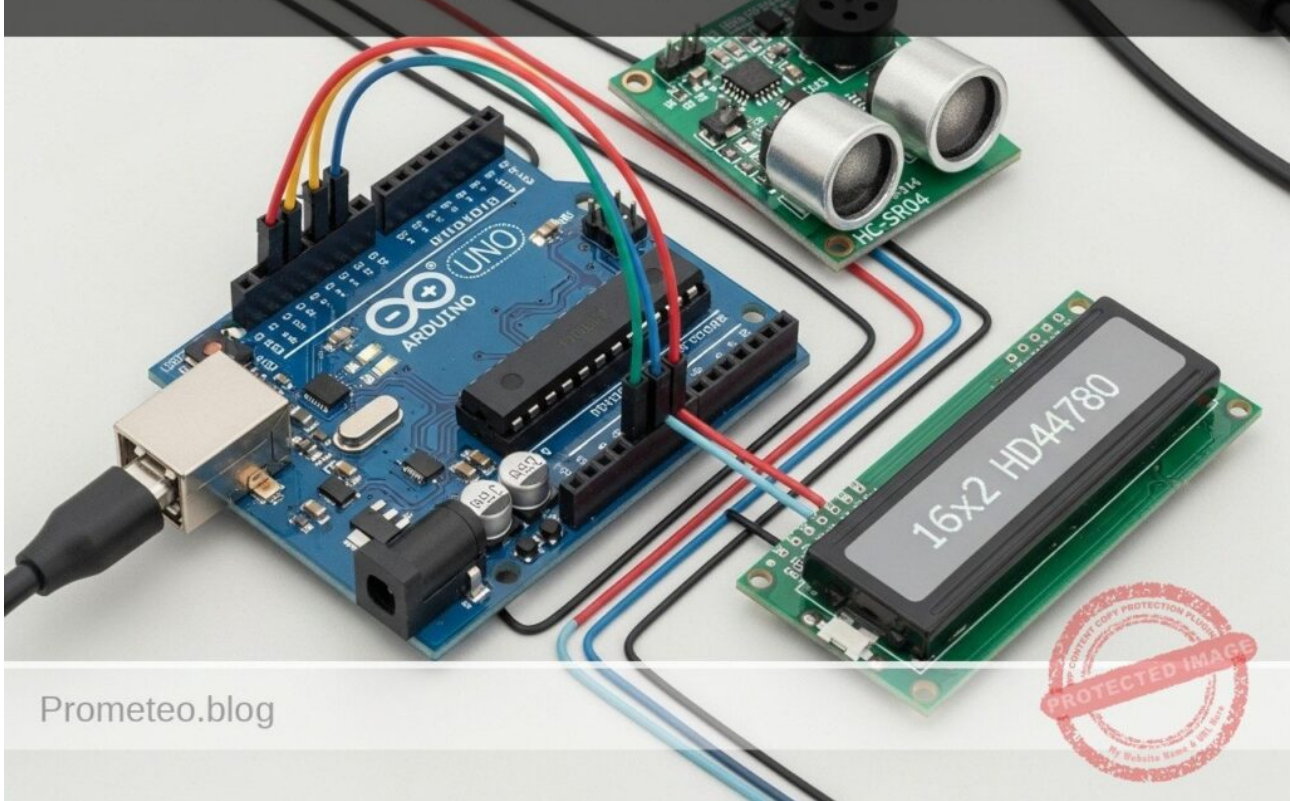
ESP32 Local Network Monitor



A standalone Field Technician's Local Network Monitor using an ESP32 configured as a Software Access Point SoftAP . It broadcasts a secure, localized Wi-Fi...

Practical case: Ultrasonic Distance Alarm with Arduino UNO

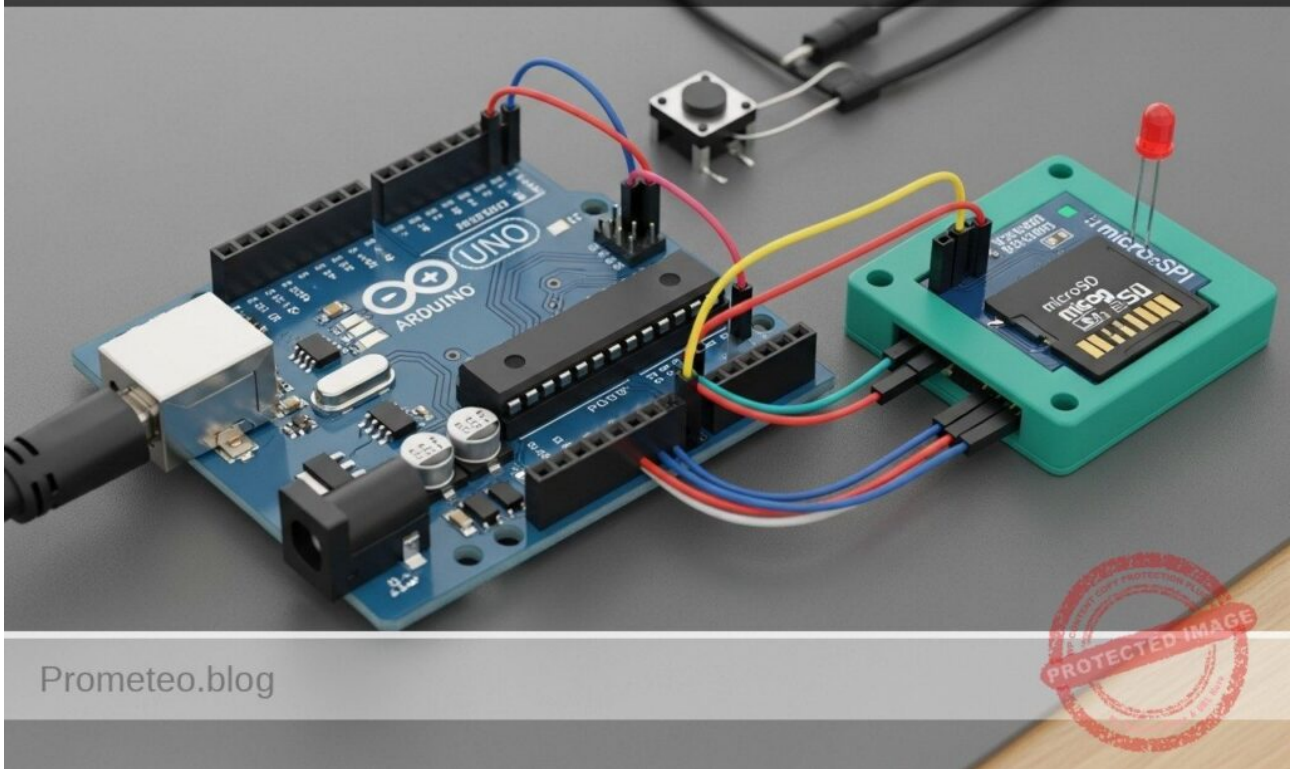
Ultrasonic Distance Alarm with Arduino UNO



You will build an educational ultrasonic parking distance alarm prototype that measures vehicle proximity and provides real-time visual and acoustic...

Practical case: SD Event Data Logger with Arduino UNO

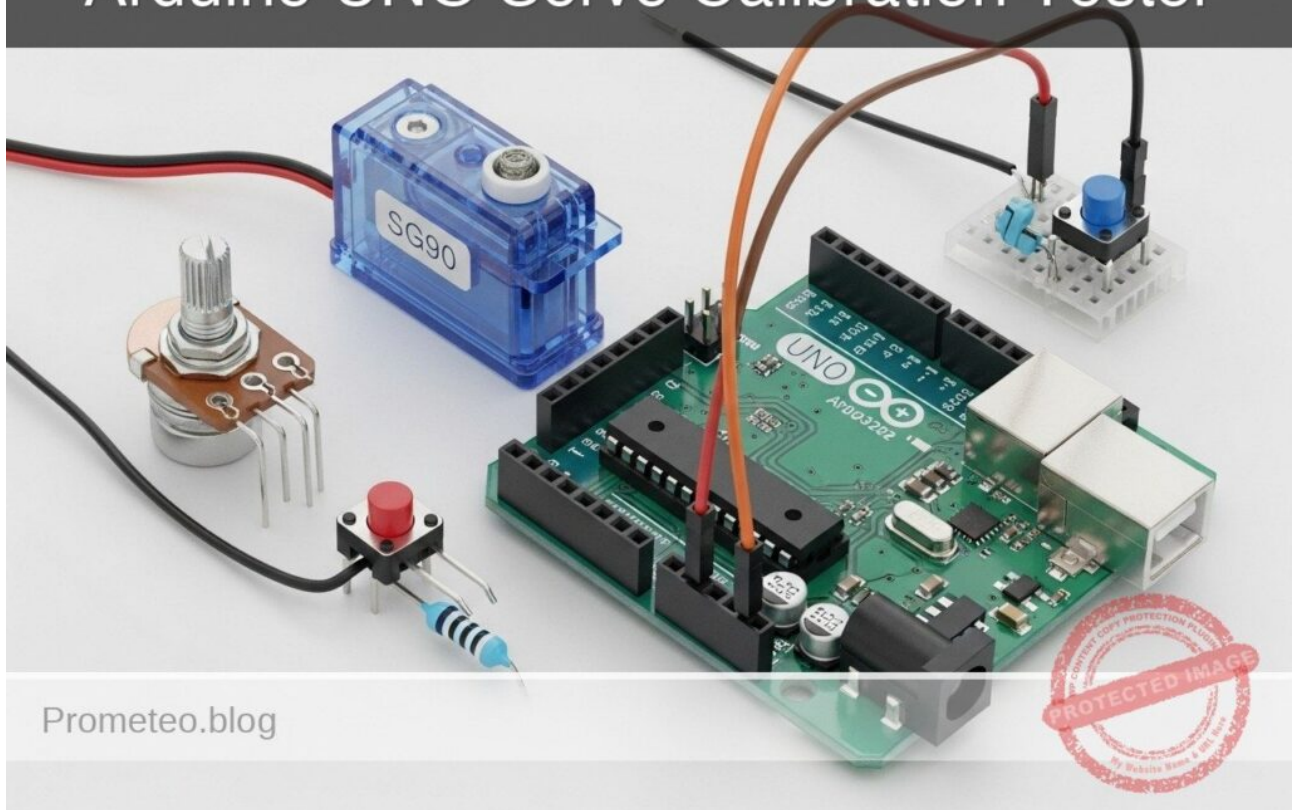
SD Event Data Logger with Arduino UNO



You will build a standalone, hardware-based event data logger that records manual discrete triggers directly to a local microSD card. Each recorded event is...

Practical case: Arduino UNO Servo Calibration Tester

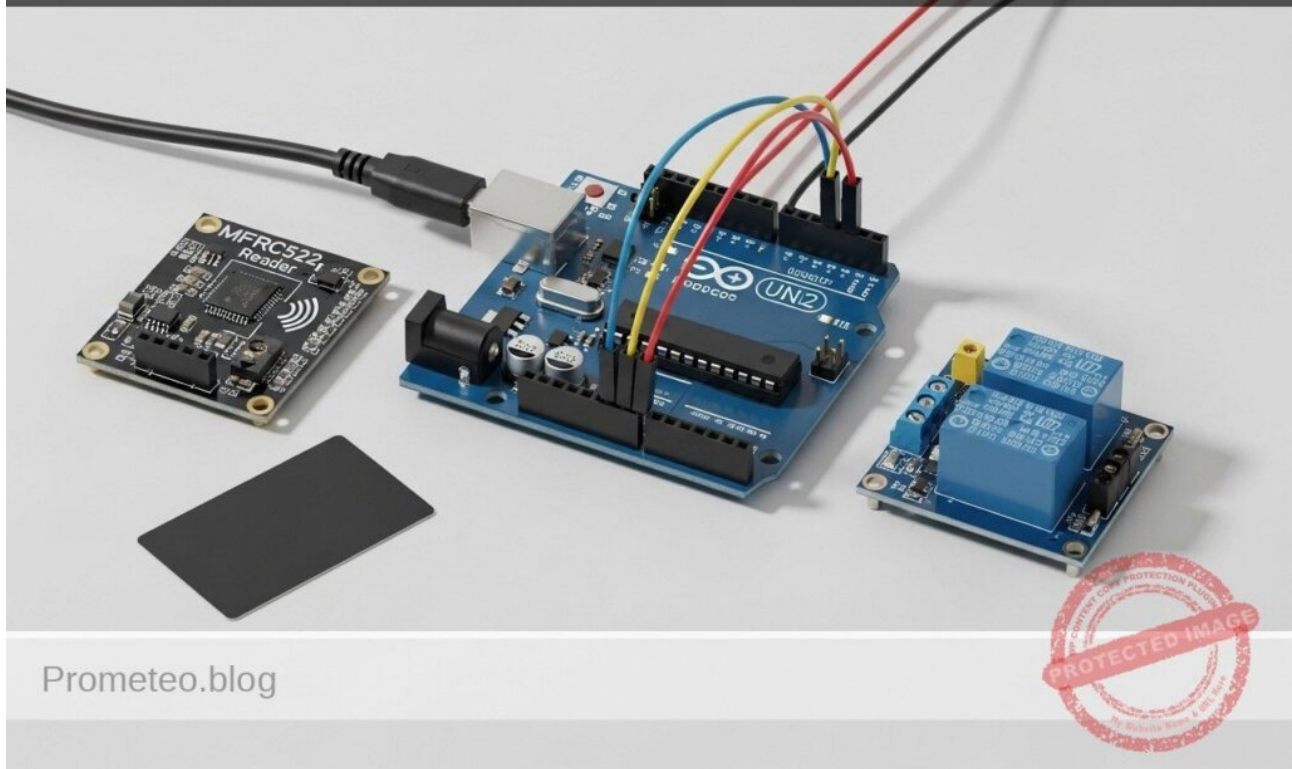
Arduino UNO Servo Calibration Tester



A standalone, multi-mode servo calibration tester that allows users to manually sweep, automatically center 1500 μ s , and test the physical limits of standard...

Practical case: RFID lock with Arduino UNO R3

RFID lock with Arduino UNO R3



Prometeo.blog

A basic RFID-controlled door-lock prototype using an Arduino UNO R3, MFRC522 RFID reader, and 1-channel relay. When an authorized card or key fob is...