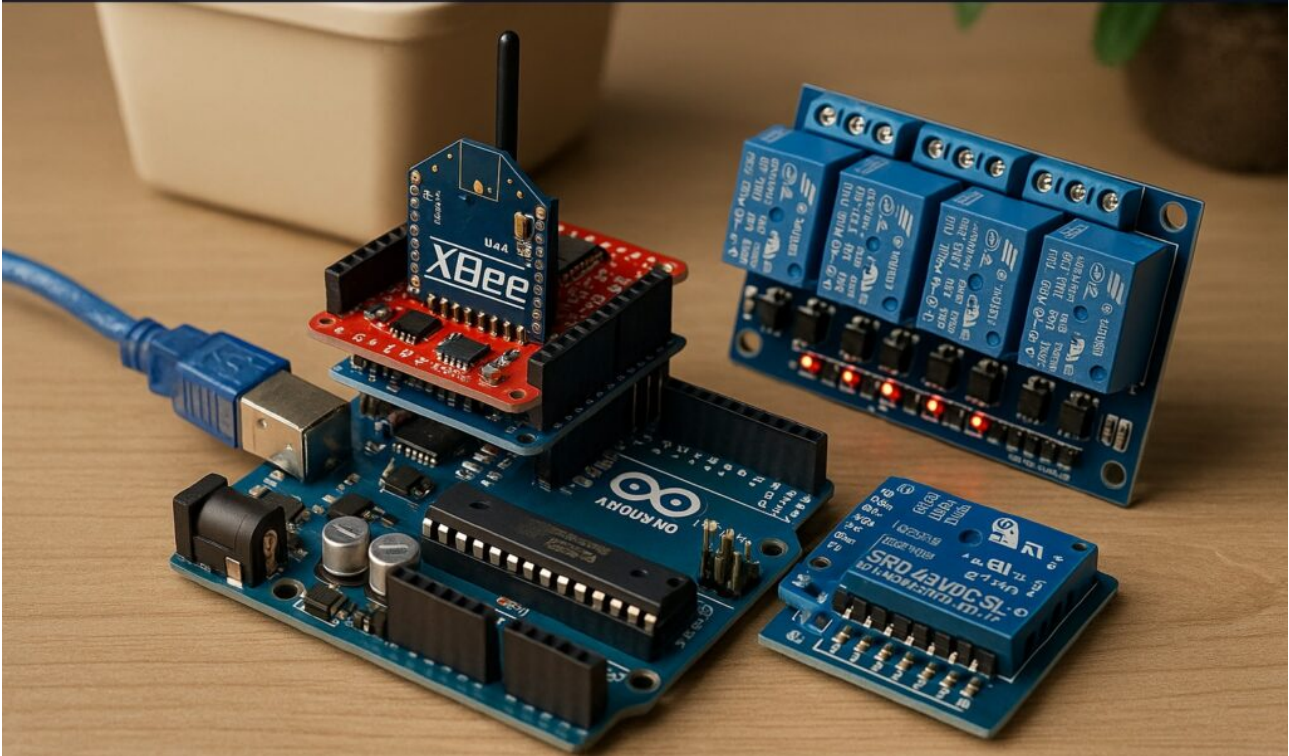


Practical case: Zigbee irrigation: Arduino Uno, XBee, relays

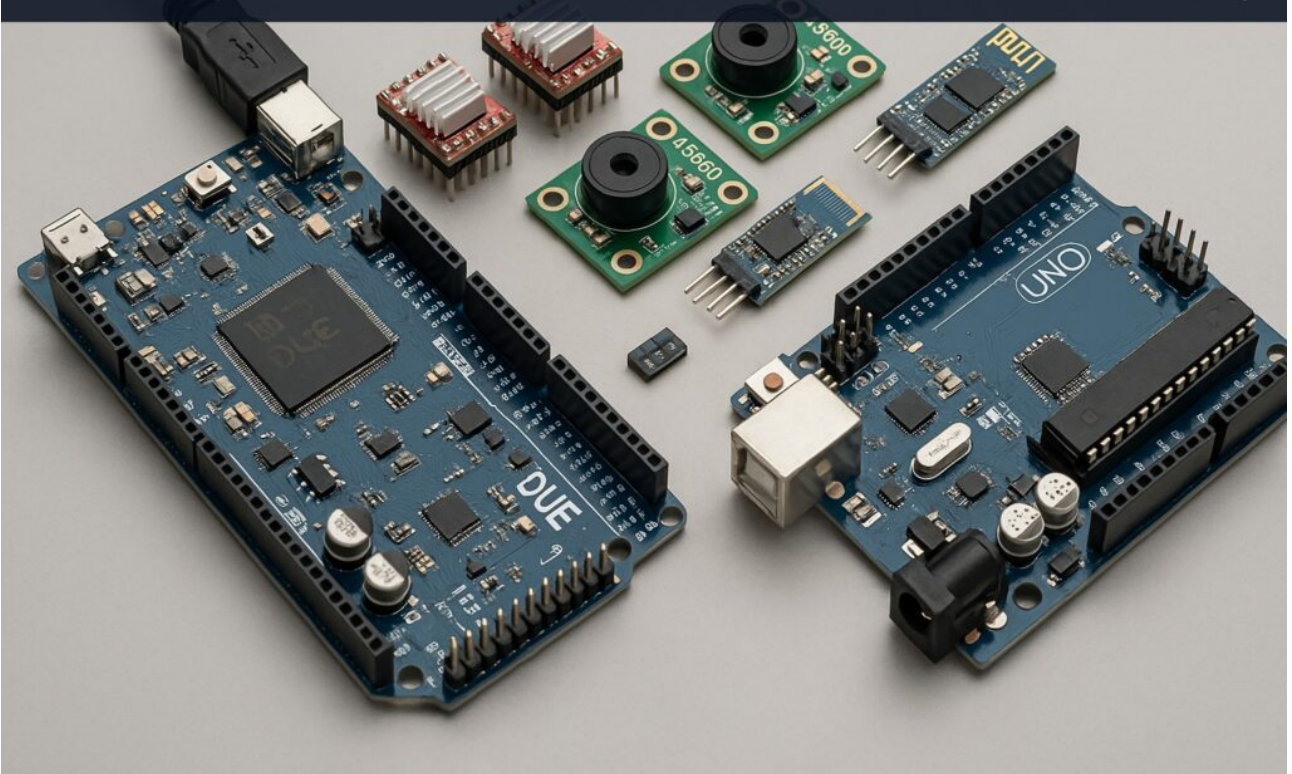
Practical case: Zigbee irrigation: Arduino Uno, XBee, relays



Build a Zigbee irrigation valve network with Arduino Uno R3 and XBee. Control valves via relays and learn advanced embedded systems techniques.

Practical case: Arduino Due + TMC2209 + AS5600 Closed-Loop

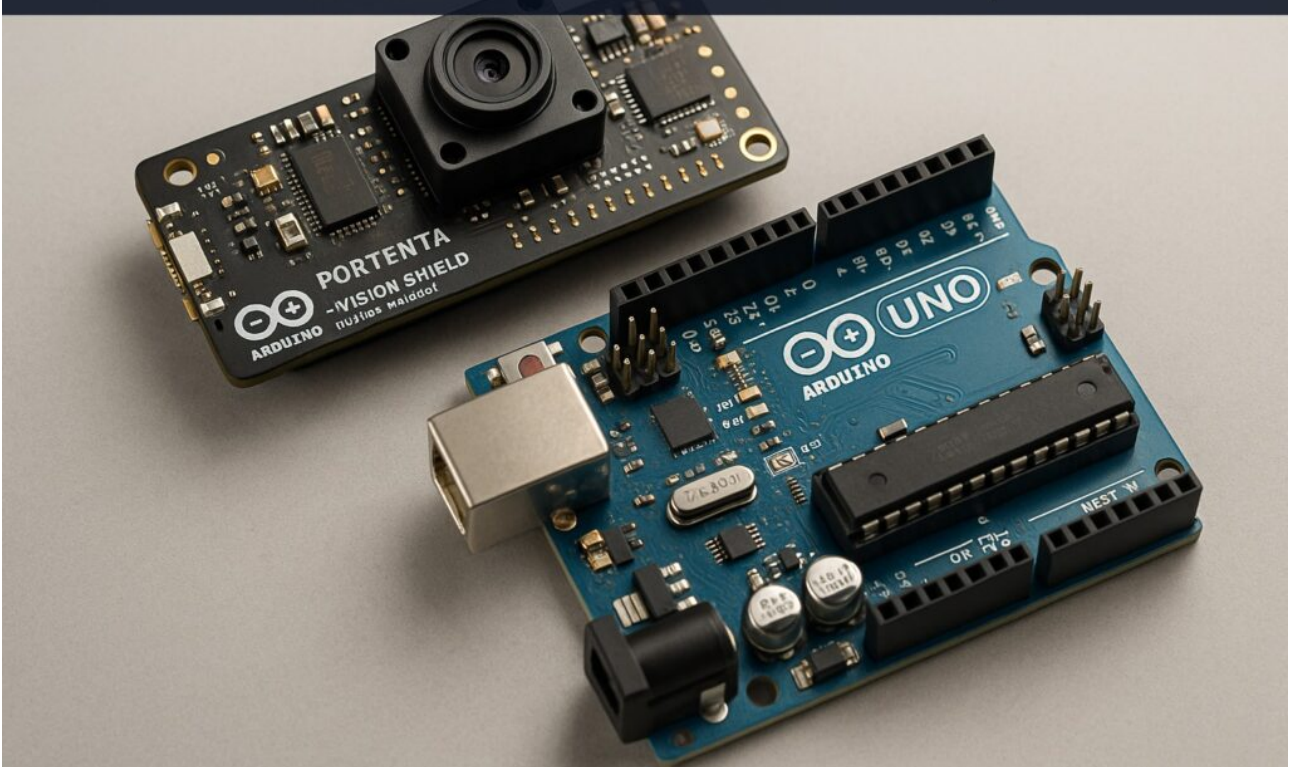
Practical case: Arduino Due + TMC2209 + AS5600 Closed-Loop



Explore advanced closed-loop stepper positioning with Arduino Due, TMC2209, AS5600, and HM-10 BLE for precise control and tuning.

Practical case: HM01B0 + Portenta H7 People Counter

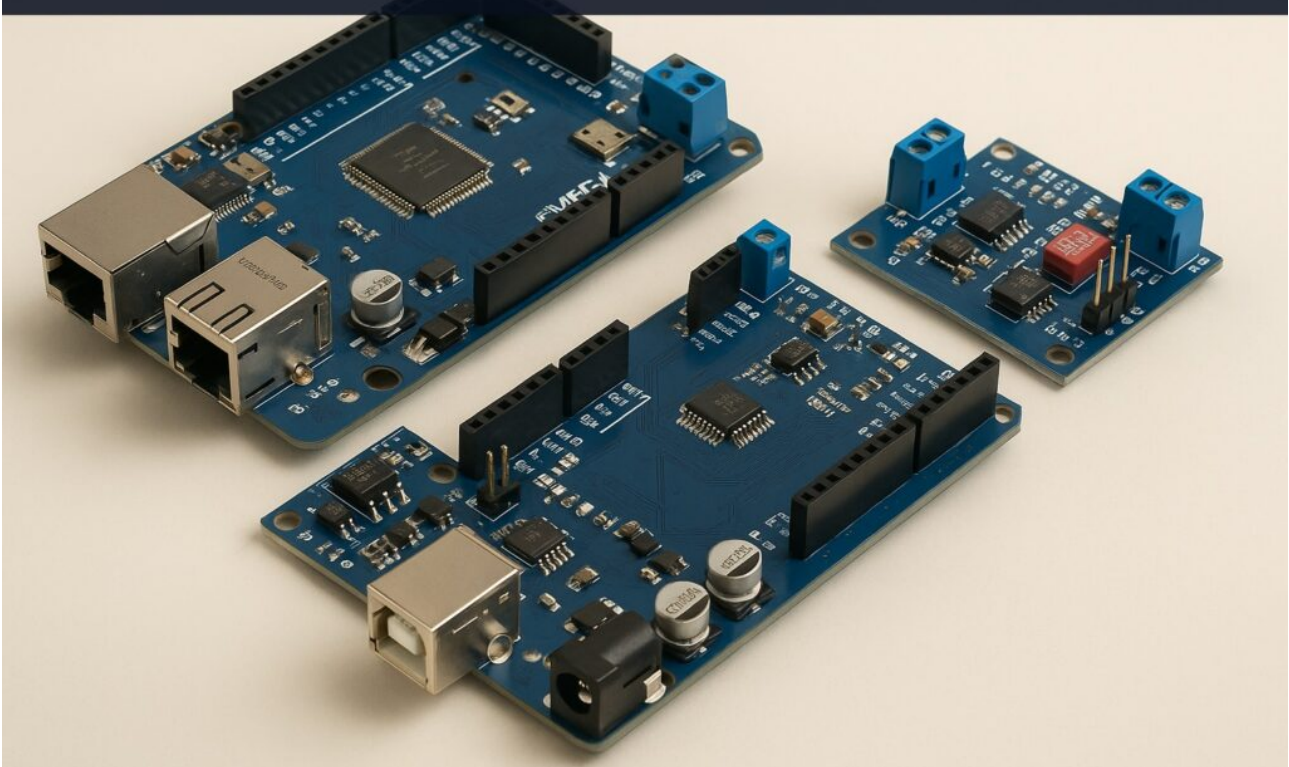
Practical case: HM01B0 + Portenta H7 People Counter



Learn to build a real-time edge people counter using Arduino Portenta H7 and Vision Shield. Stream live counts efficiently with C++!

Practical case: PID fermentation control via RS485/Ethernet

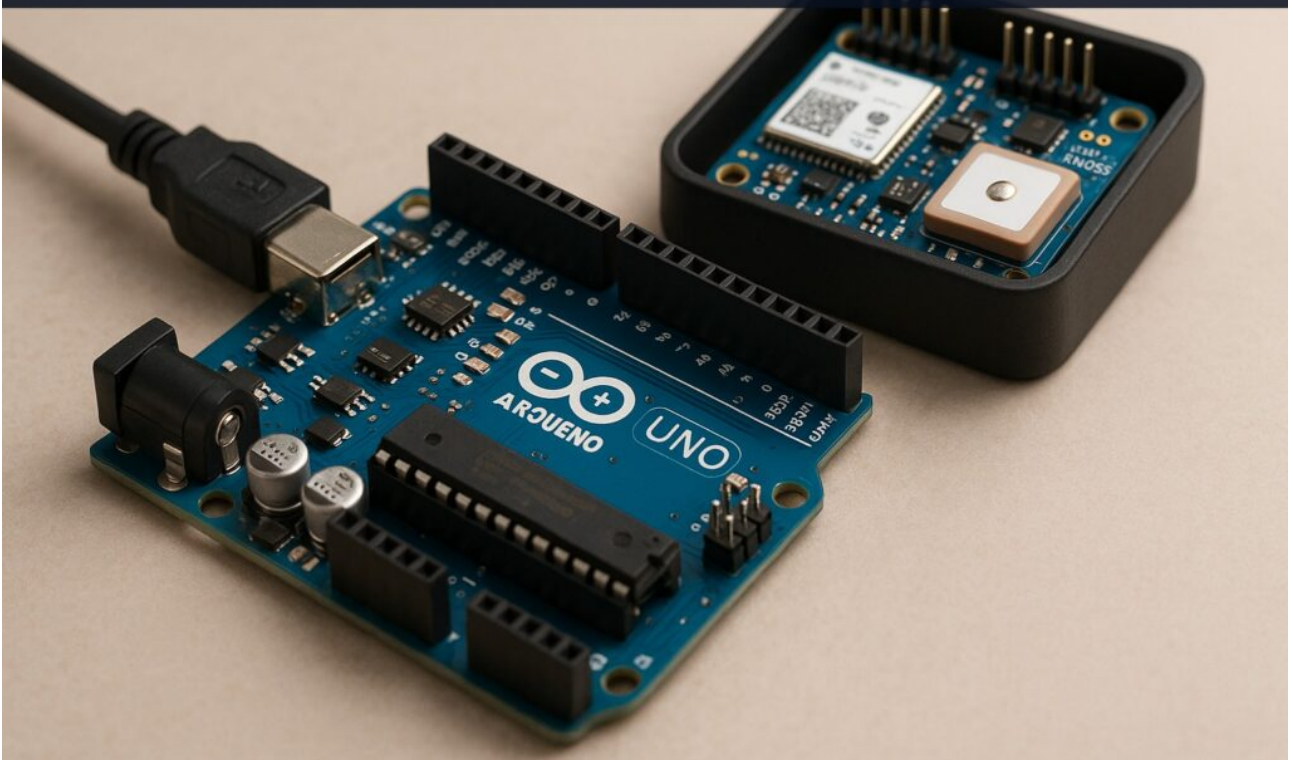
Practical case: PID fermentation control via RS485/Ethernet



Learn to build a robust fermentation temperature controller using Arduino Mega 2560, RS485, and Ethernet. Step-by-step guide with code and wiring.

Practical case: Arduino MKR GSM 1400 GNSS/GSM Tracker

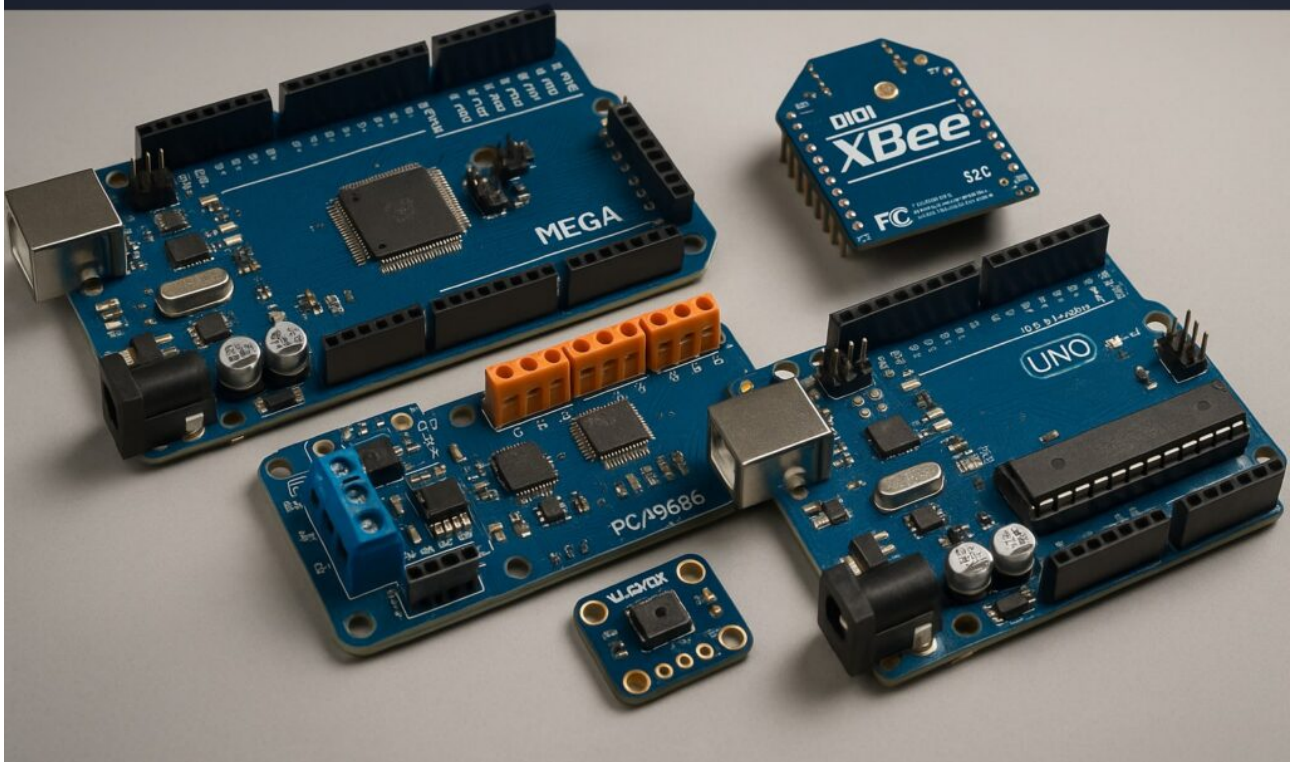
Practical case: Arduino MKR GSM 1400 GNSS/GSM Tracker



Build a field-ready GNSS-GSM asset tracker using Arduino MKR GSM 1400, NEO-M8N, and BNO055. Learn to post telemetry over GSM with PlatformIO.

Practical case: Hexapod, Arduino Mega 2560, PCA9685, XBee

Practical case: Hexapod, Arduino Mega 2560, PCA9685, XBee



Build a Zigbee-controlled hexapod robot with Arduino Mega 2560, PCA9685, and XBee S2C. Learn to wire, program, and troubleshoot your creation.