🎓 **spidey sense** — Smart IoT Temperature Control Project

Slide 1: Project Overview

- **What:** Automated temperature control system
- **Creator:** Maximo Regalado
- **Date:** July 2025
- **Platform:** Particle IoT

Slide 2: Core Features

- 👀 **Animated OLED Eyes**
- 🌡️ **Auto Temperature Control**
- 🤖 **Servo Movement**
- 💡 **Smart Light Integration**
- 🔌 **Dual Wemo Control**

🎨 3. Manual Light Control

Example for Wemo switches (via webhook or local relay):

int setLightsHandler(String state) { if (state == "heat") { digitalWrite(HEAT_PIN, HIGH); // Optional: trigger red lights } else if (state == "cool") { digitalWrite(COOL_PIN, HIGH); // Optional: trigger blue lights } return 1; }

- Override climate automation
- Good for testing hardware response

Slide 4: Control System

- Input: Temperature readings via BME280
- Output: Automatic relay to Wemo switches
- Feedback loop using Hue bulbs and OLED status display

Slide 5: Smart Features

- 🌀 **Auto Climate Control:**
  - Measures temperature every 3 seconds
  - Activates heating or cooling based on thresholds
  - Controls multiple Wemo devices simultaneously
- 🎨 **Visual Feedback System:**
- Blue lights = Cooling active
- Red lights = Heating active
- OLED eyes display animated status icons