WaveAlert360 System Architecture

☀️ Solar Panel
20W Polycrystalline

Charge

🔋 LiFePO4 Battery
12V 20Ah

👨‍💻 WaveAlert360
Developer
Code Development

👤 WaveAlert360 Operator
County/State Parks

Push Code Updates

Update Config
devices.json

Monitor Dashboard

📦 GitHub Repository
Code & Config Storage

⚡ Power Regulator
5V USB Output

12V DC

Deploy Infrastructure

Auto-Pull Updates
Every 2 min

5V USB

🖥️ WaveAlert360 Beach
Alert Device
Raspberry Pi

Power

WaveAlert360
COASTAL WARNING SYSTEM