SMART HOME WILDFIRE PROTECTION

AUTOMATED WILDFIRE DEFENSE SPRINKLER SYSTEM

Smart, Affordable, Life & Asset-Saving Technology

Smart Home

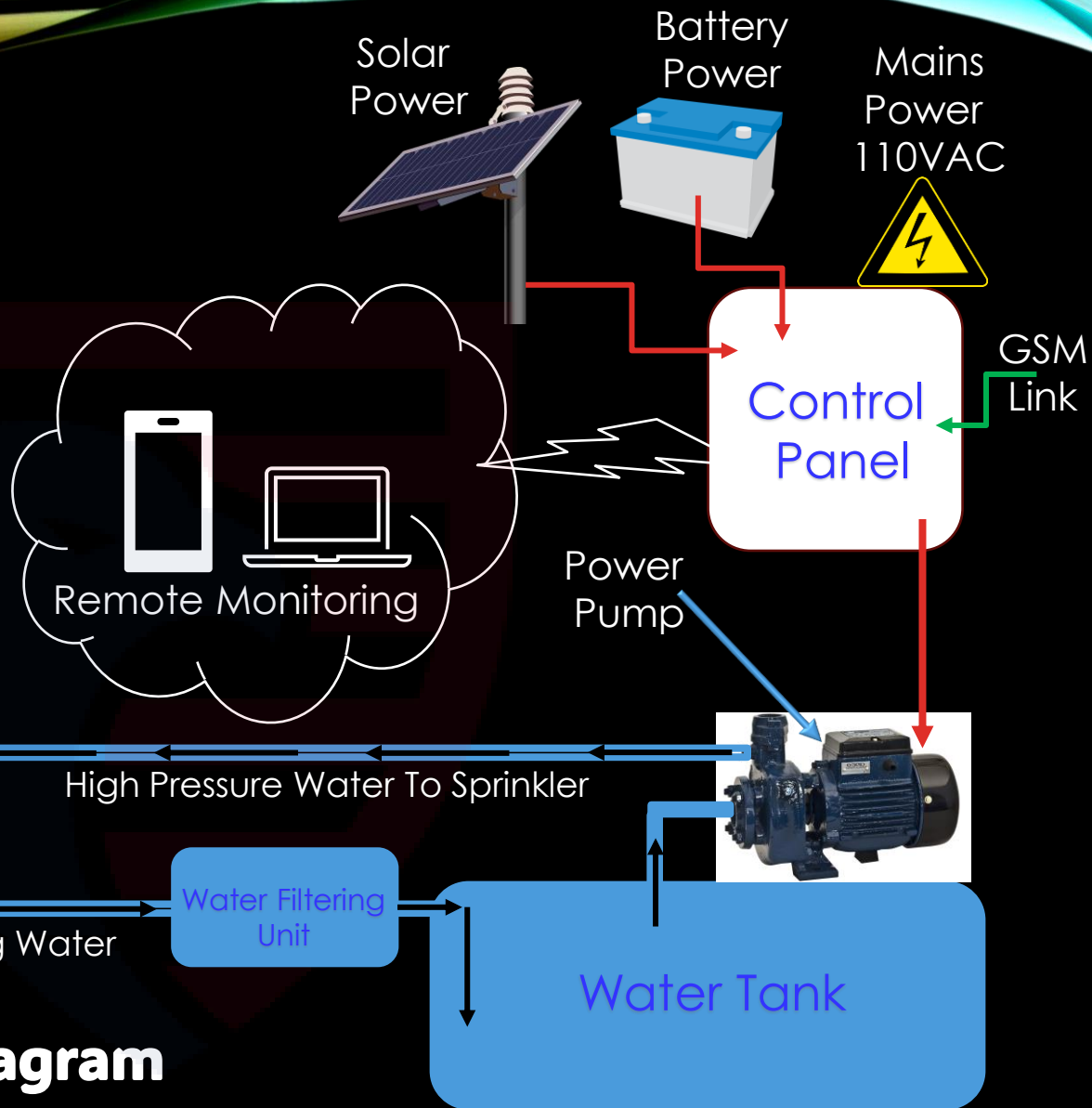## Summer

Wildfire

Smart Home

Solar Power

Battery Power

Mains Power 110VAC

Control Panel

GSM Link

Remote Monitoring

Power Pump

High Pressure Water To Sprinkler

Re-Cycling Water

Water Filtering Unit

Water Tank

Concept Schematic Diagram

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THE PROBLEM

- **Wildfires are increasingly destructive, costing billions annually.**

- **Homes and critical infrastructure are at risk in wildfire-prone zones.**

- **Current methods are expensive or reactive.**

- **No scalable, automated front-line defense exists.**

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OUR SOLUTION

- **SMART HOME Automated Sprinkler System for Wildfire Defense. Activates during wildfire threats.**

- **Moistens surroundings, cools surfaces, and raises local humidity.**

- **Cool down home from outside during hot summer days reducing load on your AC – reducing electric bill**

- **Smart, sensor-driven, solar-resilient system with remote control.**

HOW IT WORKS

- 🔥 **Detection: Heat, smoke, and air quality sensors.**

- 💧 **Response: Sprinkler heads activate based on smart thresholds.**

- 💥 **Resilience: Solar-powered backup ensures uptime.**

- 📱 **Control: User Interface Simple app or web dashboard for real-time updates and manual control & manual override.**

- ❄️ **Cooling surfaces to prevent ignition from embers**

- ♻️ **Re-Cycling water**

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TECHNOLOGY OVERVIEW

- **ESP32 Microcontroller/Arduino: Smart logic GSM+Wi-Fi communication**

- **Sensors: Heat, smoke, air quality for real-time detection**

- **Solenoid Valve + Pump: Controls water delivery**

- **Solar + Battery: Ensures off-grid resilience**

- **Dashboard App/Web UI: Remote control and alerts**

Water Delivery System

- Ground mounted and perimeter sprinklers

- High-pressure misting nozzles for water efficiency.

- Underground water tank or connection to main water line with backflow prevention.

- Water Re-Cycling – Going Back To The Tank

- Option for fire-retardant additive in water (non-toxic, biodegradable).

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UNIQUE VALUE PROPOSITION

- ☑ **Affordable & scalable**

- ☑ **Smart automation + AI detection**

- ☑ **Solar-powered for resilience**

- ☑ **Emergency alert integration potential**

- ☑ **Versatile for homes, ranches, businesses**

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MARKET OPPORTUNITY

- **Wildfire Defense Market Growing**

- **Target Customers: Homeowners, Insurers, HOAs, Municipalities, Builders**

- **Government push for wildfire safety creates B2G opportunities**

- **Providing wildfire-specific sensors, Smart phone app solar resilience. Making sure your Home Plays SMART**

- **Smart Remote Monitoring**

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BUSINESS MODEL

- **Phase 1:** Direct-to-consumer kits

- **Phase 2:** B2B with builders, Smart Homes Company, Fire departments, insurers, Neighborhood or HOA-level coordination

- **Phase 3:** License software to existing systems

- **Revenue:** Hardware sales, SaaS dashboard, monitoring service with 3rd. Party

DEVELOPMENT ROADMAP

- **Q1 – Q4 2025: Prototype & testing**

- **Q1 – 2026: Beta deployments**

- **Q2 – Q3 2026: Commercial launch**

- **Certification and feedback-driven improvement**

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WHY NOW

- 🔥 **Wildfires are worsening year over year**

- 🏠 **Homeowners & insurers seek proactive protection**

- ⚡ **IoT + AI + solar tech = scalable & viable**

- 🎯 **Fire dept. over burden when it comes to wildfire suppression**

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CALL TO ACTION

- **Invest in a smarter defense against wildfire**

- **Concept building in progress**

- **Build, test, and deploy**

- **Let's protect our homes and create a new category in fire prevention**

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STEPS ON PROJECT

- **Step 1 - Working on concept to make it theoretical**

- **Step 2 - Prototype schematics**

- **Step 3 - Blueprint Electronic system**

- **Step 4 - Testing of Prototype**

- **Step 5 - Developing Apps – Dashboard**

- **Step 6 - Ready for Demo**

- **Step 7 - Introducing to Market.**

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FINANCIAL ASK

- **Seeking: Concept recognition**

- **Pre-Seed Investment**

- **Use of Funds: 40% R&D, 25% Software, 20% Marketing, 15% Legal/Certs**

- **Runway: 12–15 months**

- **Goal: Minimum Viable Product - MVP launch, 100+ beta installs.**

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