

DRONEALITY Project Proposal

Title: Environmental Awakening UAV System

Project Codename: DRONEALITY (Drone + Reality)

1. Project Vision

To develop a specialized unmanned aerial vehicle (UAV) system not for warfare, but for awakening the public and governments to the real-time environmental destruction happening across the globe. The drone will act as a mobile alarm and messenger, targeting pollution zones, climate hotspots, and political blind spots with data-driven interventions.

2. Purpose

- Highlight overlooked or ignored pollution sources (CO₂, plastic, chemical spills, etc.)
- Provide real-time visual, audio, and environmental data
- Trigger emotional and intellectual reflection through immersive alert methods
- Avoid illegal or hostile applications while maximizing societal impact

3. Key Features

a. Surveillance and Monitoring

- Air pollution sensor (CO₂, PM2.5, SO₂)
- Thermal camera for heat island effect and wildfires
- Real-time location tagging (GPS/GLONASS)

b. Awareness Modules

- High-powered LED projection system (for statistics and slogans on surfaces)
- Voice broadcast module (pre-recorded messages in multiple languages)
- Fog or chalk spray emitter (biodegradable visual markers for key zones)

c. Autonomous Operation

- AI route optimization based on pollution heatmaps and political significance
- Self-returning recharge logic via solar or wireless induction pads

d. Symbolic Payload (Non-harmful)

- Banner drop: "How many tons of CO₂ today?"
- Confetti made from biodegradable algae-cellulose with QR codes linking to open climate data

4. Materials and Build

- Lightweight carbon fiber and flame-retardant composites
- Waterproof hull (for coastal or acid rain zones)
- Replaceable sensory modules and awareness payload cartridges

5. Legal and Ethical Safety

- Complies with international UAV regulation (non-military class)
- Open source emission and operation data
- Emphasizes satire, awareness, and education — not fear or terror

6. Deployment Scenario

- Launch during major industrial expos, political summits, and environmental anniversaries
- Coordinate with NGOs, research institutions, and public artists
- Autonomous campaigns over industrial zones, waste disposal sites, and urban centers

7. Prototype Goals

- Reach 25 minutes of stable flight
- Carry 1.5 kg of awareness modules
- Operate under wind speed of 6 Beaufort (39–49 km/h)

8. Project Statement

"This is not a weapon. It's a flying mirror. It shows us what we are doing, and what we will become."