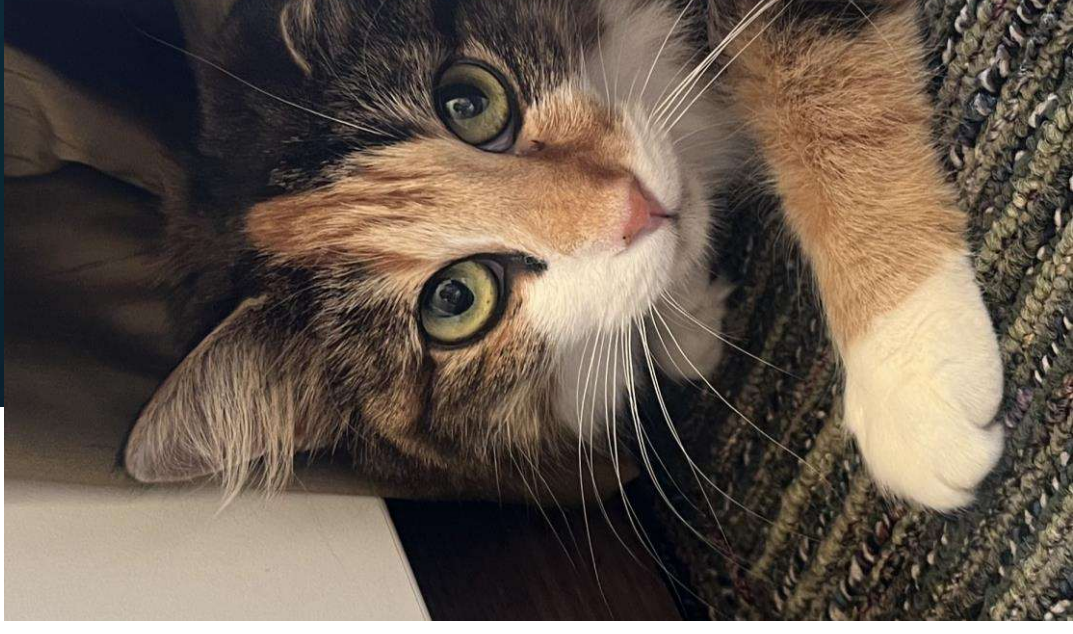


Rosie Wildlife Tracker
Fernando Alarcon,
Vishvajit
Senthilkumar, Tan
Chau



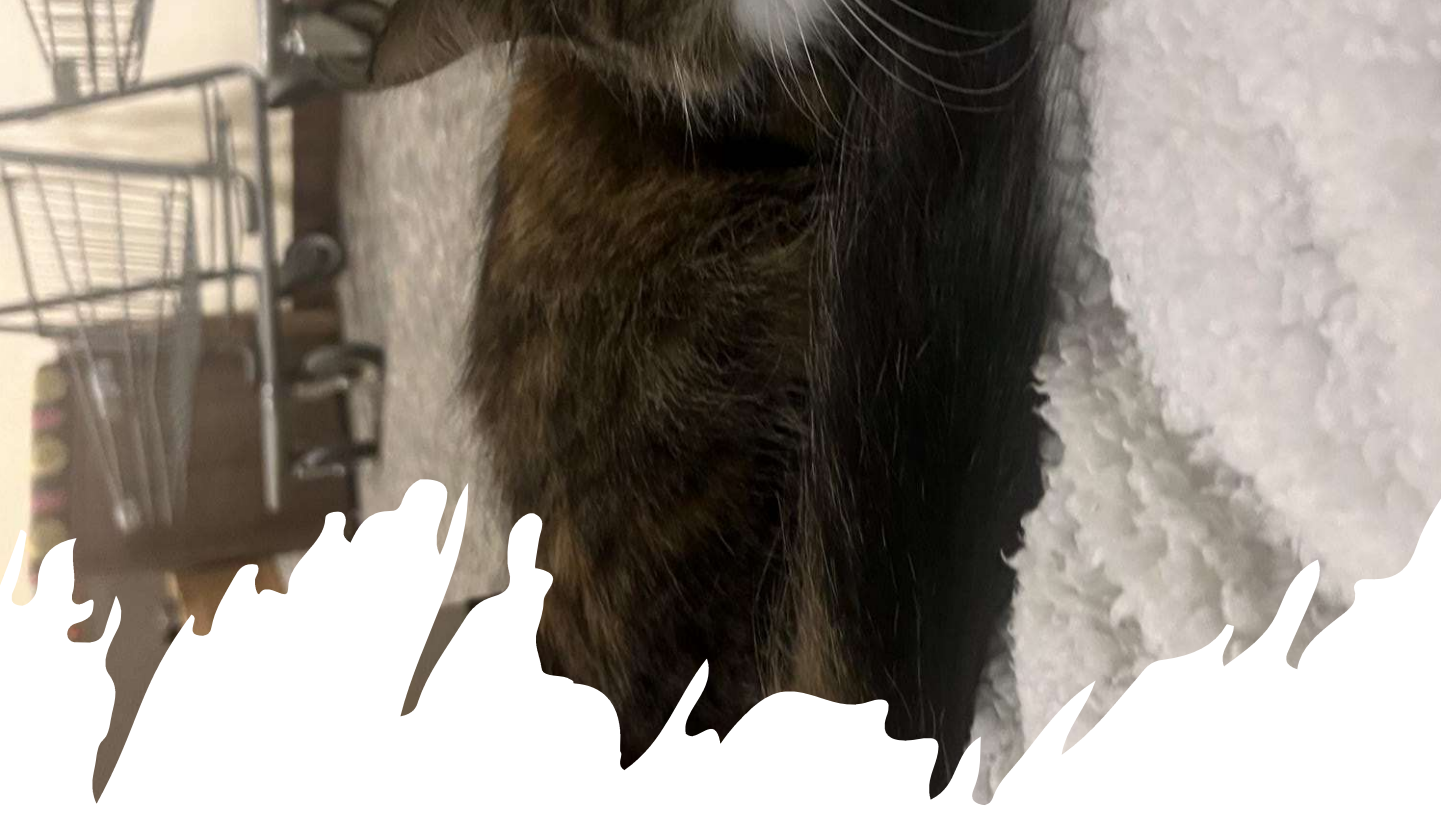
The Problem

Stray cats can have a significant impact on wildlife, especially birds, small mammals, and reptiles, by hunting and disrupting local ecosystems. Their presence often leads to a decline in native species, particularly in sensitive or urban-edge habitats. Rehoming stray cats not only helps protect wildlife but also improves the cats' quality of life, giving them access to shelter, food, and medical care. Through responsible rehoming and adoption efforts, we can reduce the stray population, support animal welfare, and restore balance to local environments.



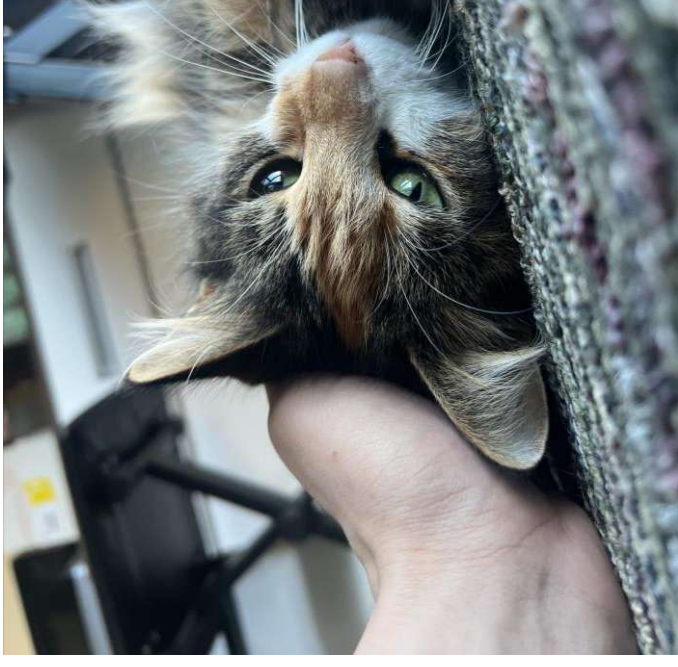
Our Project Mission

Our mission is to support wildlife conservation and research by developing smart, non-invasive tracking tools that combine movement, location, and physiological data. Using technology like the ESP32, motion sensors, heartbeat monitors, and GPS, we aim to provide researchers with real-time insights into animal behavior, health, and habitat use helping protect wildlife and preserve ecosystems more effectively, and find and capture animals such as stray cats to be rehomed.



Achievements

- Fully functional prototype with all sensors integrated
- Compact, wearable casing for field use to be used with a harness
- Live data successfully transmitted and displayed



What's Next for Rosie

- Enhance ESP32-cloud communication for long-term deployment
- Add AI to detect stress, health anomalies, and behavior changes
- Publish live wildlife dashboards for public awareness
- Integrate solar power and LoRa for off-grid wildlife zones



Our Impact

- Rosie Tracker bridges the gap between animals and data
- Helps researchers, ecologists, and communities protect nature
- Real-time insight into wildlife movement, health, and environmental interaction
- Designed for scalability, sustainability, and smarter conservation



Thank You

- Let's build a better world—
one heartbeat at a time.
- Team: Tan, Vish, Fern
-  Live demo available!

