TripleRing

Flow Cytometer Data Analysis

OneHealth

Client
One Health Group

Practice Areas
Smart Medical Devices

Core Disciplines
Software Engineering
AI & Advanced Algorithms
Mechanical Engineering
Systems Engineering
Transfer to Manufacture
Electrical Engineering
Industrial Design
Embedded Systems
Applied Physics

Challenge

One Health Group needed a wearable physiological monitoring system capable of accurately capturing biometric data from animals continuously — while remaining comfortable enough for long-term wear and reliable enough for real-time alerting without interfering with natural movement. As a lean startup operating a fully outsourced R&D model, the project also required a development partner capable of rapidly demonstrating feasibility and managing risk across a complex, multi-disciplinary build.

Solution

Triple Ring led development of a wearable physiological monitoring platform using a structured feasibility and product development approach. Rapid feasibility demonstrations de-risked critical design elements early, while industrial design, sensing technologies, and wireless communication systems were integrated to ensure reliable performance across extended wear conditions. Multidisciplinary R&D services were tailored throughout to the pace and resource constraints of a virtual startup environment.

Client Impact

- Delivered robust functional prototypes generating high-quality physiological data suitable for ongoing validation
- Demonstrated the feasibility of continuous biometric monitoring in veterinary applications
- Supported One Health Group's technology roadmap and investor value proposition
- Enabled expanded partnerships with strategic investors in the veterinary health industry

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