
OVERTIME SOLVED · THE ENGINE

MantaRayTM

The Apex Sentinel of Overtime Intelligence

A briefing on the proprietary behavioural intelligence engine behind Overtime Solved — its origin, its architecture, and the disciplines it fuses to detect what other systems miss.

Origin

Forged by Adrian Fry, Senior Economic Modeller, across two-and-a-half relentless years (2023–2026), MantaRay is not just software — it is the most advanced overtime forensics engine ever built.

Designed to glide through complex payroll data like its namesake through ocean currents, it detects, dissects, and neutralises leakage and fraud with unmatched precision.

Six disciplines, one analytical force

At its heart, MantaRay fuses six elite disciplines into a single, unstoppable analytical force:

- **Geometric mathematics** — mapping the hidden spatial architecture of overtime patterns.
- **Fibonacci sequence mathematics** — revealing the natural rhythmic pulses that legitimate activity follows.
- **Integral mathematics** — calculating the true cumulative cost of every deviation across time.
- **Transport economics** — proven models that treat overtime as a high-stakes logistics network.
- **A dedicated statistics engine** — spotting the statistical whispers that signal fraud.
- **Advanced network analytics** — exposing the invisible connections between employees, shifts and cost centres.

A constellation of proprietary sub-routines

Powering this capability is a constellation of over a dozen proprietary sub-routines. Each one is laser-focused on a distinct signature of overtime leakage and fraud — identifying not just what is wrong, but exactly how the pattern deviates from legitimate behaviour.

No guesswork. Just forensic certainty.

The Consistency Variable

Central to its genius is the Consistency Variable — MantaRay's proprietary rhythm engine. It doesn't merely check numbers; it measures the temporal harmony of overtime activity against the natural Fibonacci-like cadence of real work.

When that harmony breaks, the Consistency Variable lights up like a flare, quantifying the exact degree of discord and flagging even the most sophisticated, slow-burn fraud attempts that other systems miss entirely.

MantaRay doesn't analyse overtime.

It masters it.

Precision. Elegance. Unrivalled insight.

Built to end overtime leakage for good.