

Algorithm Portfolio Overview

This document provides an overview of the algorithmic trading and risk management systems developed to manage and expand cryptocurrency portfolios. The portfolio includes four primary trading algorithms and one non-trading safeguard algorithm, each designed to function in different market conditions while working together as an integrated framework.

Investment / Swing Trade Algorithm

A medium-term growth strategy designed to capture larger moves in the digital asset markets while preserving principal. Trades are grouped, and maturity is reached when 75% of buys exceed a 10% profit threshold. Profits are left in the asset, compounding exposure.

Market Maker Algorithm

Focused on range-bound or sideways markets, this algorithm cycles capital through rapid buy/sell trades. It ensures no net capital loss by fee-adjusting all trades, while leaving profits in digital assets to build holdings over time.

Profit Taker Algorithm

A capital recovery and de-risking strategy that creates structured sell ladders after each buy. Its goal is to guarantee principal recovery, ensuring that remaining exposure after full ladder completion is pure profit.

Market Neutral Algorithm

A hedge-fund style relative-value strategy that profits from the performance differences between assets rather than absolute price direction. It leverages profits and idle assets left behind by other algorithms, rotating them into active positions to generate new returns regardless of market direction.

Adaptive Circuit Breaker

A non-trading safeguard designed to detect overheated markets. It uses 52-week range data, sentiment indicators, and thresholds to signal when to halt new buys. Once triggered, it instructs all trading algorithms to stop accumulation and shift into capital preservation, ensuring gains are secured during market tops.

Synergy Across Algorithms

These algorithms are designed to complement one another. Profits left behind by the Swing Trade, Market Maker, and Profit Taker strategies can be re-deployed by the Market Neutral Algorithm. The Adaptive Circuit Breaker provides top-level oversight, ensuring all trading strategies operate within safe market conditions. Together, they create a robust framework capable of adapting to bull, bear, and sideways markets.