Company Overview

Praetorian Aeronautics: Affordable Counter-Autonomy at Scale.

An Australian hardware-software company, Praetorian's in-house product ecosystem combines cost-effective, mass-manufacturable autonomous interceptors with cutting edge AI-enhanced battle management software to deliver systems for defence which are attritable, scalable, and equipped with the strategic autonomy to outpace the rapidly evolving threat landscape.

Capabilities

Dagger - C-UAS Interceptor

A modular, low cost-per-shot, autonomous, high-speed interceptor UAS built for kinetic neutralisation of adversary UAS and UxS beyond visual range.

- Capable of striking Group 2-3 UAS, drone boats, and ground targets.
- 50+ KM engagement envelope enables beyond visual range interception.
- AI-enabled EO + IR seeker enables precise, low signature intercepts.
- Deployable from mobile multi-canister launchers for distributed area denial.
- Deployable in high volume swarms to engage 100+ adversary targets.

Hadrian - Counter-Swarm Battle Management System

A next-generation battle management system for autonomous threat evalutaion and weapons assignment against high-volume swarm drone threats.

- Integrates data from distributed passive sensors and tactical links (e.g., Link 16).
- Utilises AI to detect, track, engage, and neutralise swarm threats.
- Coordinates simultaneous Dagger launchers from distributed launch locations.
- Single command human-on-the-loop authorisation minimises operator burden.
- Open architecture supports integration into existing battle management systems.

Venator - Long-Range ISTAR UAS

The cost-effective, high-endurance, multi-role autonomous UAS solution for long-range ISTAR, deep strike, and maritime interdiction missions.

- Modular airframe enables multiple mission sets in a single common platform.
- CTOL deployable from short unprepared surfaces and ship deck environments.
- Modular payload supports flexible sensors and strike effectors, including Daggers.
- Organic autonomous operation, swarming, and in-flight operator handover.
- 24 HR operation over 20,000 FT with operational distance exceeding 3000 KM.

Discriminators

- **Integrated Hardware & Software:** Praetorian is a true hardware-software company, developing both autonomous hardware platforms and AI-enhanced command and control systems in-house.
- **Attritable by Design:** Platforms are engineered for low-cost, scalable, and distributable deployment in high-threat environments.
- **Swarm-Capable AI:** Proprietary multi-agent reinforcement learning enables swarm-on-swarm operations with minimal operator input, enhancing countermeasure speed and precision.
- **Non-ITAR, COTS Supply Chain:** Enables rapid integration, sovereign manufacturing, and unrestricted export to allied nations.

Key Customers

Key customer relationships and discussions for the Dagger, Venator, and Hadrian are not disclosed publicly.

Quality Accreditations and Awards

- 2025 South Australian Premier's Business and Export Awards Finalist
- The production system and supply chain for the Dagger and Venator is ISO 9001 compliant and will attain AS9100 certification.

Key Partnerships

- Defence Trailblazer
- NVIDIA Inception Program
- University of New South Wales
- Adelaide University
- RMIT University
- Charles Darwin University
- Daronmont Technologies

- Arkeus
- Aerobond
- ACS Australia
- AVT Australia
- Bespoke Engineering

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