

WYVERN-1. Passive RF Geolocation, Cooperative by Design.

WYVERN-1 is a passive, AI-driven RF sensing package that locates non-cooperative emitters from distributed autonomous platforms, in environments where traditional systems cannot operate. Two patented methods drive the array. The system is autonomous, requires no specialized operator training, and rides low-cost platforms the U.S. military is fielding now. Validated in a high-fidelity digital twin.

CORE CAPABILITIES

- **Passive RF Geolocation**
Listens for emissions, never illuminates.
- **AI-Driven, Two Patented Methods**
Adapts in real time to whatever the emitter does.
- **Autonomous Operation**
No specialized operator training required.
- **GPS-Denied Operation**
Works where traditional systems can't.
- **Non-Cooperative Targets**
Frequency-hopping, intermittent, mobile emitters.
- **Low-Cost Host Platforms**
Rides distributed autonomous platforms.

TECHNOLOGY

APPROACH	Passive, cooperative geolocation
METHODS	Two patented techniques (AI/ML driven)
OPERATION	Autonomous. No specialist required.
ENVIRONMENT	GPS-denied, contested EW
HOSTS	Low-cost autonomous platforms
VALIDATION	High-fidelity digital twin
MATURITY	Engineering prototype, lab-validated

LEADERSHIP

Mike Thompson CO-FOUNDER & CEO

35+ years across telecom, wireless, and security. Began at Bell Canada in switching, data, and systems engineering. Global Practice Leader at Nortel Networks, scaling wireless and security solutions across dozens of countries. Founded ICSynergy International (acquired by top-five global PE firm). Drove M&A at iC Consult Group as it became the world's leading IAM consultancy. Founding Managing Partner of QuantaCyber.

Dr. Mitch Thornton CO-FOUNDER & CTO

Cecil H. Green Chair of Engineering, SMU. Executive Director, Darwin Deason Institute for Cyber Security. Program Director, M.S. in Quantum Engineering. 30+ patents, 5 books, 350+ technical publications. Earlier: L3Harris, Cyrix, Amoco Research.

WYVERN AT A GLANCE

FOUNDED	2025
HEADQUARTERS	Dallas, Texas
STAGE	SBIR Track, Seed
SECTOR	Defense Sensing
FIRST SYSTEM	WYVERN-1
FOCUS	Passive RF Geolocation

INSTITUTIONAL FOUNDATIONS

Darwin Deason Institute, SMU
LTB LLC (Core IP)
Invited demonstrations at U.S. military test ranges