

PHOTON ECHO

A Photon Digital LLC Offering

Legal Entity: Photon Digital LLC

CAGE Code: 18F04

UEI: HYDNU8GGE8C5

Business Type: Small Business

Location: Neenah, Wisconsin

CORE CAPABILITIES

Photon Echo is a simulation and synthetic environment capability designed to support research, development, and evaluation of physical and autonomous systems.

The platform focuses on modeling environments, behaviors, and interactions to produce structured simulation artifacts and datasets that support perception, decision, and control workflows without reliance on raw sensor streams.

Capabilities include:

- Synthetic environment generation for physical and autonomous systems
- Simulation of agent behavior, interactions, and environmental conditions
- Generation of structured simulation artifacts and datasets
- Support for perception, reasoning, and control system development
- Scenario based modeling for research and experimental evaluation

Photon Echo is intended for research, prototyping, and experimentation use cases.

APPLICATION AREAS

- Physical AI and autonomous system research
 - Robotics and unmanned system development
 - Sensor and perception system evaluation
 - Decision making and control workflow testing
 - Training, analysis, and concept exploration
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DIFFERENTIATORS

- Focus on structured simulation artifacts rather than raw sensor replication
 - Designed to support early stage research and experimental workflows
 - Modular approach to environment, behavior, and interaction modeling
 - Supports iterative scenario development and evaluation
 - Aligned with SBIR, R&D, and exploratory program needs
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DEVELOPMENT STATUS

Photon Echo is under active development and is offered in support of:

- Research and development engagements
- SBIR Phase I and Phase II efforts
- Pilot studies and proof of concept evaluations
- Collaborative exploration with government and research partners

The capability is not marketed as a commercial off-the-shelf product.

COMPLIANCE AND DATA HANDLING

Photon Echo development and demonstrations are conducted using unclassified, customer provided, or publicly releasable information.

No classified data is required for engagement.

CONTACT INFORMATION

Joshua D. Atencio
Sole Member
Photon Digital LLC
Neenah, WI
Email: josha10cio@gmail.com
Phone: 6192880004