Org Capability

Bridge R&D to Operations – Fast, Cutting-Edge, and Cost-Efficient

NIGHTWORKS

Executive Summary

What We Do:

- Advanced mission system development and operations

- AI/ML deployments + evaluations

- R&D, and R&D transition to ops

- Security engineering for air-gapped systems

Our Process:

- Automation-first approach

- Integration of product and engineering team

- Simplicity over complexity in solutions

- Harmony within engineering rigor and the scientific method

Core Capabilities

Mission Systems Dev & Ops

System development, integration, and sustainment

Operations in air-gapped, edge, and constrained environments

Security Engineering (ATO)

Controls implementation + evidence automation

Risk reduction and audit-ready delivery

DevSecOps (Cloud / On-Prem)

Kubernetes platform administration + development

Repeatable environments and hardened deployments

AI/ML Deployments

Scope driven AI resource deployments

Agent-first, context-efficient systems

AI/ML Evaluations & Alignment

Evaluate query effectiveness + compliance of AI systems

Agentic architecture for testing/scoring

Full-Stack + Data Engineering

Purpose-built web-applications supporting data apps/pipelines

Sensemaking through iterative data science and analytics

Mission Systems

We believe time should be spent developing and solving the end problem, not setting up systems.

Development Focus

- Agentic intelligence sense-making

- Multi-INT data processing

- ISPaaS (Platform development)

Operations Focus

- ATO process automation (cATO)

  - Infrastructure workload automations

- AI-based anomaly detection and triage

R&D

Quality communication and high-paced iterations lead to stronger validation signals

Tech Maturity

TRL 1-4

TRL 5-7

TRL 8-9

Our Focus

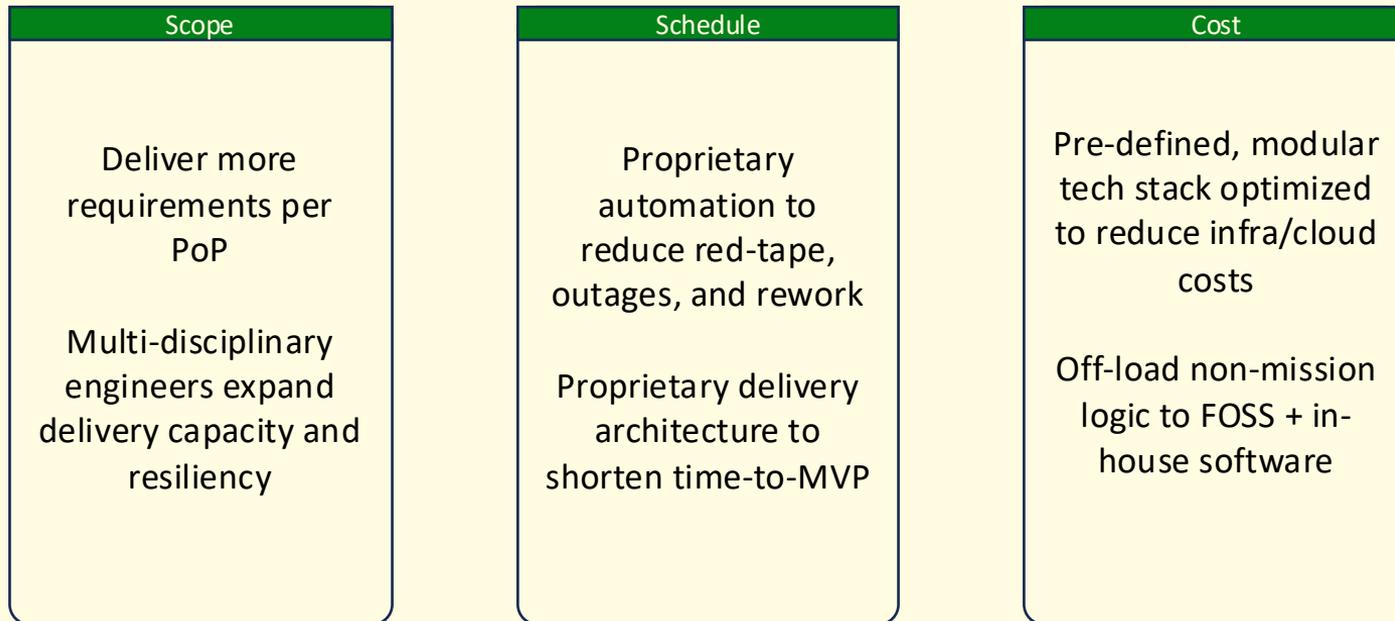| Reproducibility |
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Evaluation

Operational Heritage

R&D Expertise

- AIOps/LLMOps/AgentOps
- cATO Tooling
- Scalable edge compute architectures

Value Proposition: Triple Constraint

Class-leading value, by embracing sensible AI and automation

Scope	Schedule	Cost
Deliver more requirements per PoP	Proprietary automation to reduce red-tape, outages, and rework	Pre-defined, modular tech stack optimized to reduce infra/cloud costs
Multi-disciplinary engineers expand delivery capacity and resiliency	Proprietary delivery architecture to shorten time-to-MVP	Off-load non-mission logic to FOSS + in-house software

Our Process

Builders are owners	We don't separate engineers and product owners. Engineers must be good product owners
Leverage In-House R&D	We develop internal products to maximize delivered value
Promote skill diversity	Being just a web developer is not enough. Our engineers are comfortable picking up any tech stack

Narrative

NightWorks delivers advanced Mission System Development and Operations, bridging the critical gap between cutting-edge R&D and production reality. We specialize in transitioning emerging technologies, using specialized talent and AIOps, LLMOps, and cATO tooling, into air-gapped, and edge, deployment environments. Our unique value lies in optimizing the Triple Constraint: we maximize scope and accelerate schedules by deploying multi-disciplinary engineers armed with proprietary automation, including but not limited to agentic DevSecOps and proprietary solution architectures, to drastically reduce time-to-MVP. Simultaneously, we drive down costs through pre-defined, efficient tech stacks and a strategic reliance on open-source software to minimize licensing burdens, and developer friction. Driven by rigorous alignment to engineering fundamentals, NightWorks executes aggressive requirements with precision and speed to ensure mission success.

Work With Us

contact@nightworks.org