FLYBY ROBOTICS

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CAPABILITY BRIEF

FLYBY ROBOTICS

Drone Manufacturing Company

- Founded in 2021 | HQ in Los Angeles, CA
- $5.6 million institutional capital
- Holds U.S. Patent No. 11,926,418 B2

Experienced Leaders and Staff

- Multidisciplinary team of Mechanical, Electrical, Software, and Machine Learning engineers from Yale, NVIDIA, and the Naval Air Command (NAVAIR)
- 25% have PhDs
- 25% have Professional Certifications

Core Capabilities

Building tactical quadcopters around powerful GPUs.

NDAA Compliance

Resilient supply chain compliant with 2023 NDAA Sec. 817

Machine Learning at the Edge

100 trillion operations per second of onboard processing power on NVIDIA Jetson Orin NX 1024 core GPU

Open Architecture

Drone built as a modular platform for innovative hardware and software development

PROBLEM

Today's drones are frozen products.

Closed systems → can't develop software
Static housings → can't add hardware
No onboard GPU → no edge AI capability

But warfare is constantly evolving.

Systems must add new capabilities and adapt to changing environments.

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FLYBY ROBOTICS

Flagship Product: F-11

PROGRAMMABLE AUTONOMOUS UAV.

- 100 TOPS* GPU for AI
- Adaptive Modularity
- 2023 NDAA Sec. 817 Compliant
- 18,000 mAh onboard Li-Ion battery capacity
- 3% power consumption at max GPU utilization
- 6lbs or 5lbs payload configuration
- 50 minutes flight time

*100 Trillion Operations Per Second GPU. Extremely powerful. Fully open for developers.

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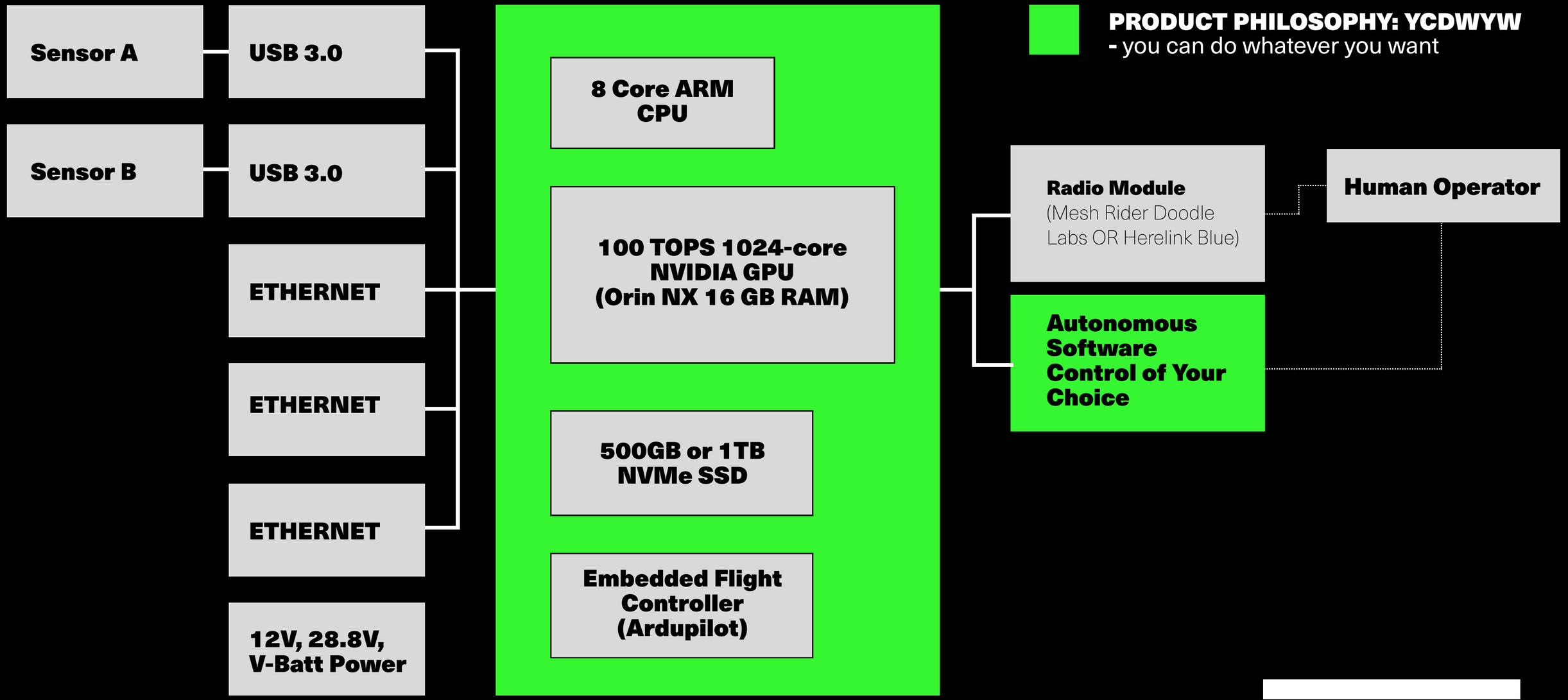
THE F-11 EAGLE - OPEN ARCHITECTURE



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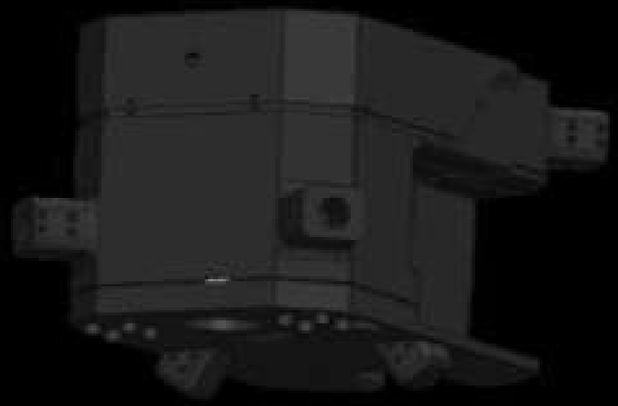
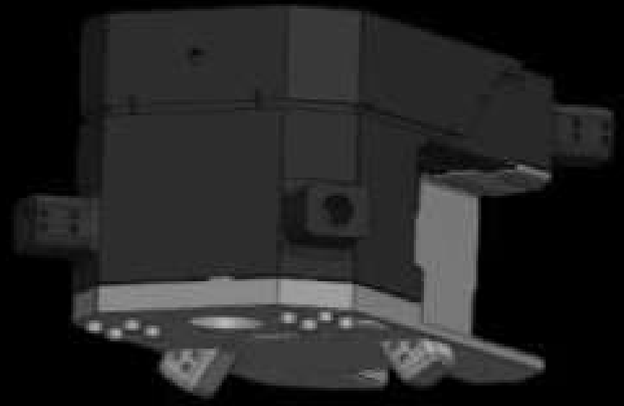
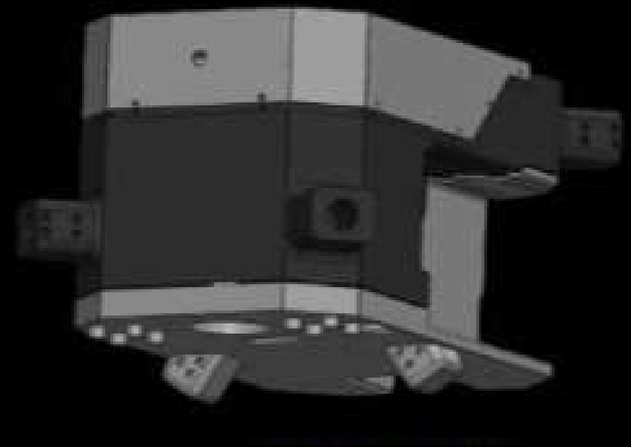
Housing can be 3D-printed to enable **new aerial capabilities.**



Top: Injection molded
Middle: Injection molded
Bottom: Injection molded



Top: Injection molded
Middle: Injection molded
Bottom: 3D-printed nylon
Bottom configurable area: 60 in ^{2}



Top: 3D-printed nylon
Middle: Injection molded
Bottom: 3D-printed nylon
Top configurable area: 44 in ^{2}

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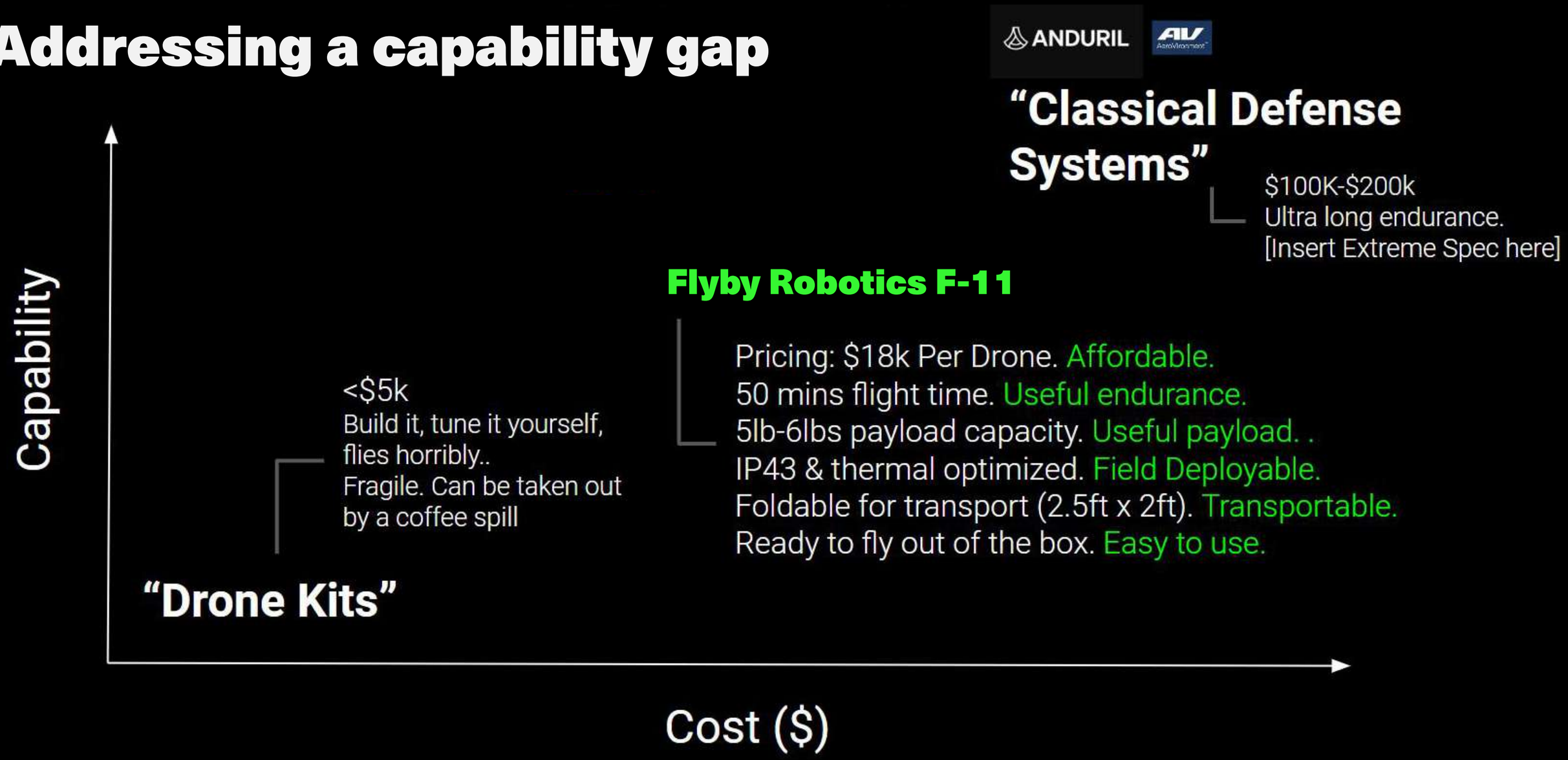
DIFFERENTIATION

Addressing a capability gap



1x

M1A2 SEP v3 Tank

Budget: $24m USD

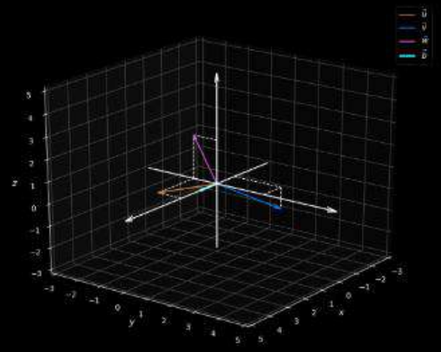
1000x

Flyby Robotics F-11

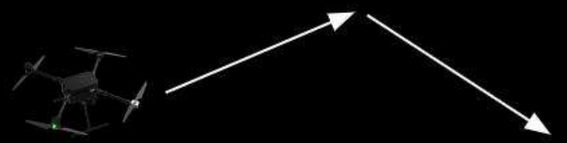
Budget: $24m USD

FUTURE ROADMAP

Stage 1: GPS-denied Geolocation Problem



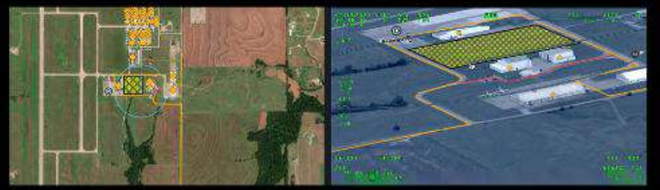
Battlefield Machine Autonomy



Rangefinding/ Target Acquisition

Machine-to-Machine Coordination

Machine-to-Human Coordination



*Future Capabilities

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