



BW-C45 Blackwidow

AI-assisted modular UAV prototyping | BIG TRADE Inc., Ontario, Canada

Compact project overview

BW-C45 Blackwidow is an independent aerospace R&D initiative: a simulation-first platform for modular VTOL carrier prototyping, additive manufacturing and GPS-denied navigation research. Engineering and manufacturing freeze are complete; the team is building the first physical prototype (TRL 3 to early 4).

At a glance

- What: modular VTOL carrier + mission simulation stack (Digital Twin, AI Drone Brain, navigation sandbox).
- Stage: Phase 3 - Physical Prototype (3D print and assembly), Jun 2026.
- Operator: BIG TRADE Inc. (Ontario corporation, active registration, NAICS 541710).
- Responsible R&D: simulation-first; no weapon system; no live payload release at this stage.

Funding need (overview)

- First financing stage: EUR 53,000 for materials, avionics, assembly, ground tests and engineering reporting.
- Itemized invoices are provided per supporter as procurement proceeds.
- Payments: Wise, PayPal (EUR), Interac e-Transfer (CAD, Canada).

Near-term roadmap

- Jun 2026 - Physical prototype print and assembly (active).
- Jul-Aug 2026 - Ground testing and hover validation.
- Jun-Oct 2026 - AI Brain and VIO/SLAM navigation research (in parallel).

Open to

Grant partnerships, technical collaboration, research cooperation, prototype development support.

Contact

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Full details, visuals and roadmap: <https://blackwidow.space/>

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