

The Next Step to the Sky

Revolutionary propulsion technology inspired by nature, designed for the future of aviation.

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Why Propellers Are Holding Us Back

Noise Pollution

Traditional propellers generate excessive noise (85-100 dB), limiting urban applications and causing noise pollution.

Inefficient Energy Use

Current electric propulsion systems waste energy through turbulence and drag, limiting range and performance.

Limited Control

Conventional propulsion offers limited degrees of freedom, requiring complex mechanical systems for maneuverability.

Bulky and Exposed Design

Propellers are large and usually exposed, which: Increases drag Poses safety hazards to people or nearby objects

Limits vehicle compactness and urban landing use





Humming Propulsion System (HPS)

Inspired by Nature

Our revolutionary propulsion system mimics the efficient wing movements of hummingbirds, combining rotational and oscillatory motion patterns.

- ✓ Full 6 degrees of freedom thrust control
- ✓ Ultra-quiet: < 65 dB</p>
- 25% more efficient than propellers
- Enclosed design for enhanced safety







CROW: The First Hydrogen-Powered Flying Car

Technical Specifications

- Speed: 500 km/h
- (S) Range: 1500 km
- Altitude: 12,000 ft
- Capacity: 5 passengers + cargo
- Can land on water and drive on roads
- Noise Level 65 dB at 5 meters
- = 10 safety systems
- Hydrogen-Powered

CROW is the world's first flying car designed to match the Hollywood dream — a true car that flies, combining the look and feel of a futuristic vehicle with the power and agility of advanced aviation technology.

Powered by the revolutionary Humming Propulsion System (HPS), CROW is compact, efficient, and versatile, built for both urban and intercity mobility.

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Market Vision

Air Taxis

Urban mobility revolution with on-demand aerial transportation, reducing commute times by 80%.

Cargo Drones

Autonomous delivery systems for last-mile logistics and emergency supplies to remote areas.

Flying Hotels

Luxury aerial accommodations offering unique travel experiences and unprecedented mobility.

Accessible Aviation

Our vision extends beyond technology to democratize flight. With intuitive controls and autonomous capabilities, HPS Aviation will make personal air travel accessible without extensive pilot training.

\$980B

Global Market by 2035

43%

Annual Growth Rate

2028

Commercial Launch







Roadmap to Revolution

Phase 1: Concept & Research (2014 — 2020)

Fundamental research and technology development. Patent portfolio established with 12 core technologies.

Phase 2: Advanced Prototyping & Company Formation (2021 – First Half 2025)

Full-scale working prototype of the CROW flying car. Testing and certification process begins.

Phase 3: MVP Development & Lab Construction (Second Half 2025)

Maiden voyage of the CROW. Public demonstrations and regulatory approval process.

Phase 4: CROW — First Flying Car Prototype (2026 — 2027)

Production facility established. Supply chain secured and manufacturing begins.

Phase 5: Market Entry & Early Sales (2028 – 2029)

Commercial launch of the CROW flying car. Initial deliveries to strategic partners and early adopters.

Phase 6: Expansion & Diversification (2030 and Beyond)

Scale the business by expanding HPS integration across multiple flying platforms beyond CROW







Phase 1: Concept & Research (2014 - 2020)

2014 – Initial idea inspired by bird and insect flight

2015 - Mathematical modelling of hummingbird wing patterns using MATLAB & ANSYS

2016 - Resigned from military R&D to dedicate full-time focus

2017–2020 - Developed and tested multiple mechanical prototypes

Built CAD, CFD, and 3D-printed models

Achieved 25% higher efficiency compared to traditional propulsion

Validated full 6-DOF control without tilting the propulsion system



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Phase 2: Advanced Prototyping & Company Formation (2021 – First Half 2025)

Simplified HPS design for manufacturability
Integrated hybrid control (rotational + oscillatory motion)

Finalized scalable axial-flux electric motor architecture

2024 - Designed full MVP model

Began company setup in Abu Dhabi Global Market (ADGM)

Registered HPS Aviation and prepared for equity crowdfunding



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Phase 3: MVP Development & Lab Construction (Second Half 2025)

Target funding: \$1.5M

Build engineering team (CFD, mechanical, business)

Set up R&D lab + acquire equipment (5-axis CNC, lathe, metal 3D printer)

Complete MVP for HPS propulsion system within 6 months

Finish Patents registration + certification & safety testing



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Phase 4: CROW – First Flying Car Prototype (2026 – 2027)

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Begin full-scale build of CROW Materials: carbon fiber + bamboo composite

Power: Hydrogen fuel cells + safety batteries

Integrate 10 advanced safety systems (including Aerospike emergency landing)

Flight tests, government compliance, and certification

Showcase to investors, public, and strategic partners











Phase 6: Expansion & Diversification (2030 and Beyond)

Develop new air mobility vehicles:

Cargo drones

Flying taxis

Modular flying hotels

Integrate HPS in:

Defense applications

Construction air platforms

Human-scale drones

Explore open-source HPS licensing model

Global expansion and strategic joint ventures



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Crowdfunding Round — Own a Share in the Future of Aviation

Campaign Overview:

Funding Goal

\$1,500,000

✓ Share Price

\$1 per share

Pre-Money Valuation

\$15,000,000

Equity Offered

10% of HPS Aviation

Registered in

ADGM, Abu Dhabi - UAE

Use of Funds

- Build the MVP of Humming
 Propulsion System (HPS)
- Strategic Partnerships
- Construct R&D and prototyping lab in Abu Dhabi
- Acquire key equipment (3D printer, CNC, lathe)
- Hire full core team: engineers, CFD, business dev
- Begin advanced development of CROW flying car
- Patent filing, certification, and early marketing

Why Invest Now

✓ Patent Portfolio

12 patents secured for our core technologies, creating a strong competitive moat.

Strategic Partnerships

Agreements with key aerospace suppliers and hydrogen fuel cell manufacturers.

Regulatory Advantage

Working closely with aviation authorities to establish certification pathways.

Market Timing

Perfect intersection of hydrogen technology maturity and growing demand for sustainable aviation.

Investor Perks (based on tiers):

- Digital investor certificate & name in the credits
- Exclusive merch (CAP, HPS shirt)
- Access to flight sim & development updates
- Early reservation or discount for CROW when launched
- VIP invite to MVP launch event in Abu Dhabi





Join Our Journey





