

HyBotX and FasterCapital Partner to extend work time of outdoor hybrid robots for extreme missions

Rockville, Maryland Jan 1, 2026 (IssueWire.com) - HyBotX and [FasterCapital](#) today announced a strategic partnership through FasterCapital's EquityPilot program to accelerate deployment of HyBotX's hybrid-power module for outdoor ruggedized humanoid robots across defense, security, industrial, agricultural, constructing, mining and disaster-response markets in North America and globally, combining technical development, go-to-market support and fundraising assistance.

Market opportunity & problem

The humanoid robotics market is rapidly expanding but remains constrained by limited energy density of battery and tied to the charging infrastructure. Industry forecasts point to multi-billion-dollar growth by 2030, yet most platforms deliver only 2-3 hours runtime, blocking heavy-duty, remote and outdoor extreme-environment use cases. HyBotX targets this white space by enabling continuous high-power operation where downtime and refueling constraints increase operational cost and mission risk. The partnership responds to the critical needs in defense, farming, border security, construction, mining, utilities and disaster response.

HyBotX solution & differentiation

HyBotX's modular hybrid power pack integrates a compact internal combustion engine, electric motor, semi-solid-state lithium-ion battery (350 Wh/kg), optional supercapacitors and a power management unit to deliver 8-12 hours of continuous operation and 3 kW sustained loads in -20 °C to 60 °C environments. Rapid refueling (<2 minutes), infrastructure independence and ROS2/NVIDIA Isaac integration make the module OEM-friendly for humanoid platforms. Early technical milestones include two patent filings, 3D CAD and virtual performance validation. HyBotX projects >3x runtime vs. battery-only humanoids and a pathway to "power-as-a-service" revenue, reducing TCO and enabling missions previously impractical for battery-only robots.

FasterCapital partnership value

Under the EquityPilot program, FasterCapital will provide HyBotX with capital, engineering network access, business development support and fundraising guidance. FasterCapital's selective criteria and global portfolio give validation to market-ready founders; the firm will help refine product-market fit, accelerate prototype completion and open introductions to strategic OEMs and defense integrators. The collaboration is structured to combine HyBotX's technical IP with FasterCapital's commercialization engine, targeting prototype finalization and pilot deployments within 12-18 months.

Executive quotes

"Hesham Zreik and the FasterCapital team back startups that solve real industry bottlenecks," said [Hesham Zreik](#). "HyBotX addresses a foundational constraint for humanoid adoption — reliable, long-duration power — and we expect the EquityPilot engagement to fast-track pilots with defense and industrial partners."

Nil Singh, HyBotX founder and CEO, said: "Our hybrid module unlocks new missions for humanoid robots: multi-day inspections, remote disaster response and heavy industrial tasks. FasterCapital's mentorship and investor network will accelerate prototype completion and help us scale to OEM

partnerships and service contracts."

Greg Powell, HyBotX Advisor, said: 'This innovation transforms robotics from controlled lab prototypes into rugged, field-ready machines powered by our hybrid modules. Designed specifically for outdoor environments, these robots can operate continuously in agriculture, construction, mining, and security—working alongside humans to tackle demanding tasks where endurance, reliability, and autonomy are critical.'

Growth trajectory & milestones

HyBotX will finalize prototype testing, complete field validation in outdoor extreme-environment scenarios, and execute OEM pilot integrations over the next 12 months. The company seeks \$200K in pre-seed Bridge/SAFE funding to finalize hardware and software integration and will pursue a seed round in 2026 to scale manufacturing and commercial pilots. Longer-term goals include licensing agreements and power-as-a-service contracts for defense, utilities and heavy industry.

About HyBotX

HyBotX, founded in early 2025 and headquartered in Rockville, MD, USA, develops hybrid-power modules that combine ICE, battery and supercapacitors to extend humanoid robot endurance for extreme outdoor operations. Led by CEO/CTO Nil Singh, HyBotX targets defense, agriculture, mining, disaster response and heavy-industry customers with mission-ready, rapid-refuel solutions.

About FasterCapital

[FasterCapital](#) is a global venture builder and online incubator dedicated to co-funding and co-founding innovative startups. Established in 2014, we are now #1 venture builder in terms of number of startups that we have helped, money invested and money raised. It supports startups worldwide through various programs, including funding assistance, business development, and technical support. The EquityPilot program is designed to help early-stage startups build scalable solutions with mentorship, strategic guidance, and network support.

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