



Hyperspawn Robotics

Introduction:

Hyperspawn Robotics is dedicated to integrating humanoid robots into human-centric lives. We seek to bridge the gap between people by developing teleoperating robots that act as proxy avatars, replicating human actions from anywhere in the world.

Product / Innovation:

Our humanoid teleoperation system replicates human agility and intelligence, designed to operate in hazardous environments where human intervention is risky. The humanoid robot, controlled via a motion-tracking suit & VR headset, accurately mimics human actions, ensuring precise, and efficient operations in high-risk zones in real time. While interacting with physical objects, VR gloves give you sensation feedback for an immersive teleportation-like experience.

In the future, the motion data combined with behavior patterns from teleportation sessions can be combined and leveraged to incorporate contextual, deep neural networks in the humanoid making it intelligent i.e. autonomous.

Our Vision for the Future:

Hyperspawn Robotics envisions a world with infinite mobility for humanity. Where humans can physically interact from anywhere in the world without the constraints of space and time. Where tasks in extreme conditions, be it defense, healthcare, space-exploration, etc., are seamlessly executed by humanoid robots, ensuring not only human safety but also efficiency by enabling skilled workers perform tasks from anywhere in the world.

And this is just an innovative stepping stone in our journey to develop the most advanced autonomous humanoids, with the latest advances in AI & robotics (Multimodal LLMs, etc.); When not in teleoperation mode, the humanoid operates autonomously to perform tasks.

User Persona

This technology enables remote work, conducting operations in hazardous environments, connecting with family, and oversight tasks. It opens new markets such as travel-free tourism, physical freelancing, and space experiences accessible to all, while transforming existing

markets. Communication with loved ones through this technology is physically interactive unlike video calls or online meetings.

Important limitations and technical constraints

- Network bandwidth dependency for real-time data transmission over internet (Latency)
- Complexity of replicating intricate human movements accurately
- Identifying on-the-fly, and disregarding replication of - unstable user motion
- Cost of production
- Scaling up quickly being a cash-intensive hardware startup while big companies converge in humanoid robotics.

How Merphi can help

- Leveraging Merphi's design expertise to enhance the aesthetic and functional appeal of our humanoid's design.
- Getting insights from Merphi's experience for a comprehensive design review and product validation, ensuring our tech meets industry standards.

Basic Renderings

