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## Armach Robotics Announces First Successful Over-the-horizon Trial of Hull Service Robot

**Armach Robotics, Inc. (Armach), has passed a critical milestone by successfully operating its Armach Hull Service Robotic hull cleaning service in full over-the-horizon (OTH) mode.**

**Plymouth, MA, 20th Dec 2022** – Earlier this month, Armach achieved a critical milestone during a demonstration of the in-water hull service robot (HSR). Armach's hull service robot, in the water in Norfolk, VA, was monitored and controlled by staff at Armach's command center in Plymouth, MA, using a

4G modem providing over-the-air connectivity.

Once the comms connection was made between Norfolk and Plymouth, the vehicle was able to complete its pre-dive checks on the pier. This involved full system checks with commands being sent from Armach's home office, nearly 600 miles away.

Cody Peyres, Armach's Operations Manager takes up the story: "After verifying the capability to successfully OTH control the vehicle from the safety of the pier, confidence levels were high enough to proceed to additional in-water testing. The vehicle was launched into the harbor and released. The Plymouth-based operator was able to fly the vehicle from the launch point at the pier, and make a controlled approach to the side of the ship. Once there, it was able to attach itself successfully, and travel along the ship's side performing a short test cleaning protocol."

As Cody Peyres elaborates, "We continue to leverage Greensea's OPENSEA open architecture control software, fused with Armach's On-Hull navigation solution from the HSR's myriad sensors, providing rock-solid vehicle control. We also knew that Greensea's Safe C2, a distance operation solution also part of the OPENSEA suite, had already proved that it was operationally viable for conducting advanced intervention tasks with ROVs. Bringing the two together in our vehicle, which has different demands from a more traditional ROV, represented an important milestone."

During this trial, it was also demonstrated how the HSR can recognize objects in its planned path of transit, autonomously navigate around these, and return to its originally planned path of operation - also referred to as an obstacle detection and avoidance manoeuvre.

John Dunn, VP Operations at Armach and pilot for this first OTH flight adds, "Flying the vehicle from Plymouth and landing on the BB64 was a euphoric experience, as we reached one more milestone on our technology roadmap. We were absolutely geeking out in Plymouth. The technology to do this isn't new or even new to the market, however, getting it incorporated onto our platform, while our collective teams continue to develop and iterate our technical offering, was still a huge lift. My hats off to the Software, Hardware and Operations teams for pulling together and moving the ball during this already busy operation."

The demonstration completes another key milestone in Armach's roadmap to its full technical offering. Future state will include small footprint robotics systems that are able to launch, clean and recover automatically all while supervised remotely from Armach's Plymouth, Massachusetts, headquarters. These units, in addition to installation in port infrastructure, can be resident on ships of all classes able to conduct hull cleaning maintenance at the convenience of the vessel's schedule on a global basis. The ability to deliver autonomous, efficient cleaning on micro-fouling means the cleaning process can be conducted in short time frames, and does not impact on the vessels' turnaround time.

Key to Armach's proposition is that the system provided a previously unprecedented level of 'Hull Intelligence', effectively creating a hull condition survey every time it cleans a hull. This allows owners to understand their hull condition in 'real time' and make decisions that will save time and money. This key phase will allow Armach to build, develop and iterate the robotics platforms, and prove that the technology and model work in the real world.

To learn more about the cutting-edge technologies that make this revolutionary service possible please visit [www.armachrobotics.com](http://www.armachrobotics.com)

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## About Armach Robotics

Armach Robotics is a technology driven maritime service company leveraging advanced robotic technology and hull data collection to deliver an always clean hull service solution for the global blue water shipping fleet.

Our technology is the enabling factor that allows us to change the way vessel owners maintain their fleet's hull performance from an inefficient, reactionary model to a proactive, intelligence based model by the use of our proprietary robot technology to both clean and collect important data on a ship's hull.

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