



***Aquanaut: The Innovation  
in Deepwater Robotics***



[nradford@houstonmechatronics.com](mailto:nradford@houstonmechatronics.com)



[@nradford](https://twitter.com/nradford)



Tech

Mobile Manipulation

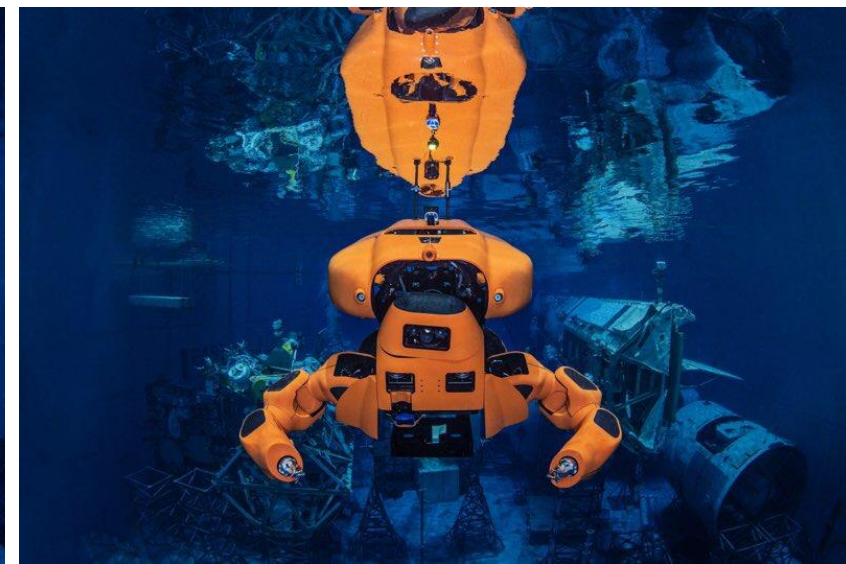
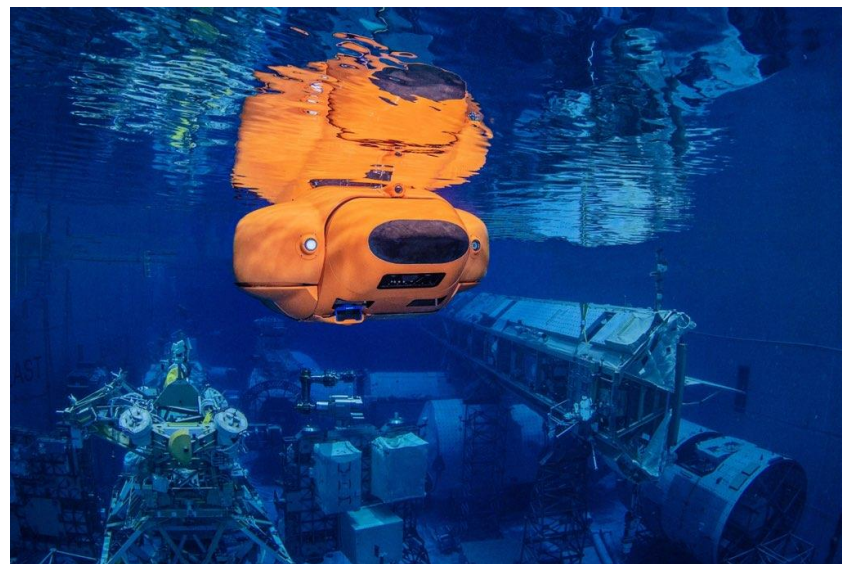
Data

Austere

Control

Shared

# Robonaut



# Aquanaut

---

\$20M

Series B

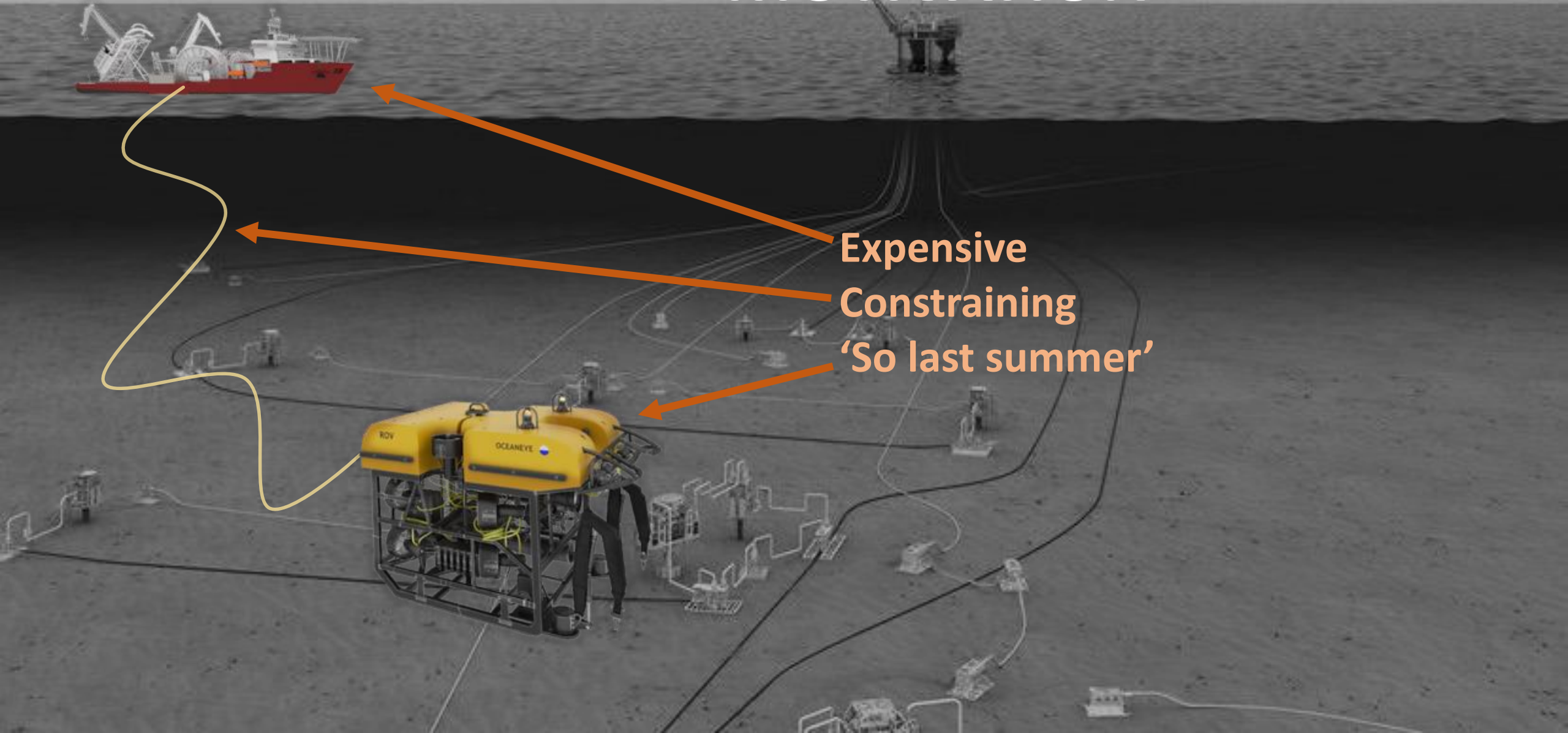
25

Former NASA Roboticians

75

Staff

# COMMERCIAL MOTIVATION



**Expensive**  
**Constraining**  
**'So last summer'**



Autonomous Mobile Manipulation Platforms

Inspired by NASA's approach to mobile manipulation

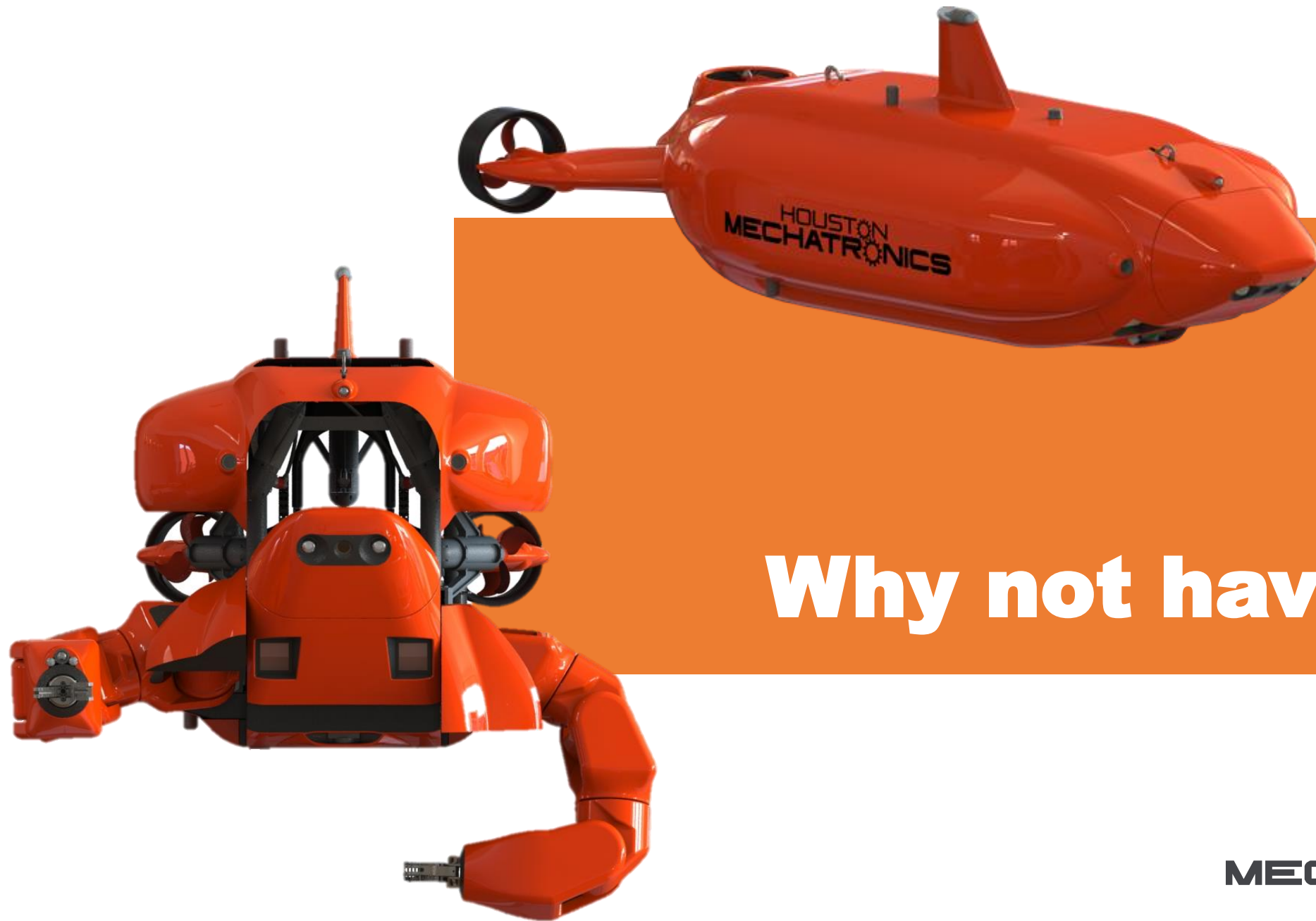


**AQUANAUT**



Upper Hull  
Lower Hull  
Tail  
Head  
Payload Bay

HMIfo



**Why not have both?**

# AUV

LM Marlin Mk3

HUGIN 1000

REMUS 6000

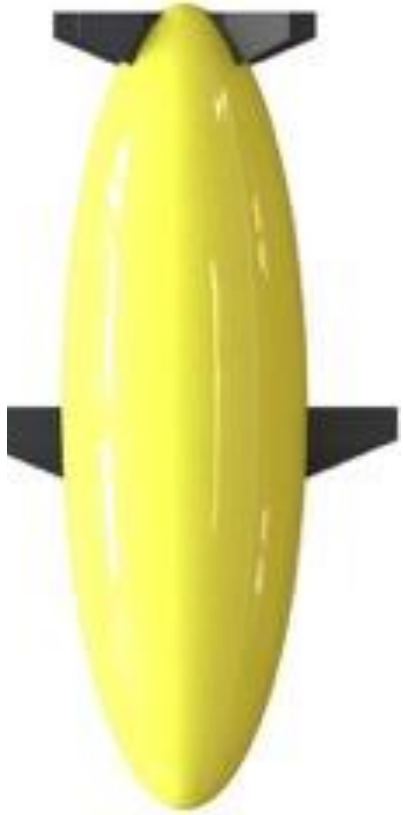
REMUS 600

Sabertooth DH

Sabertooth SH

Aquanaut

Seaglider





1.8m



2.1m



Seaeye Panther XTP

2.1m



Forum Comanche

2.2m



Seaeye Leopard



HMI Aquanaut

2.7m



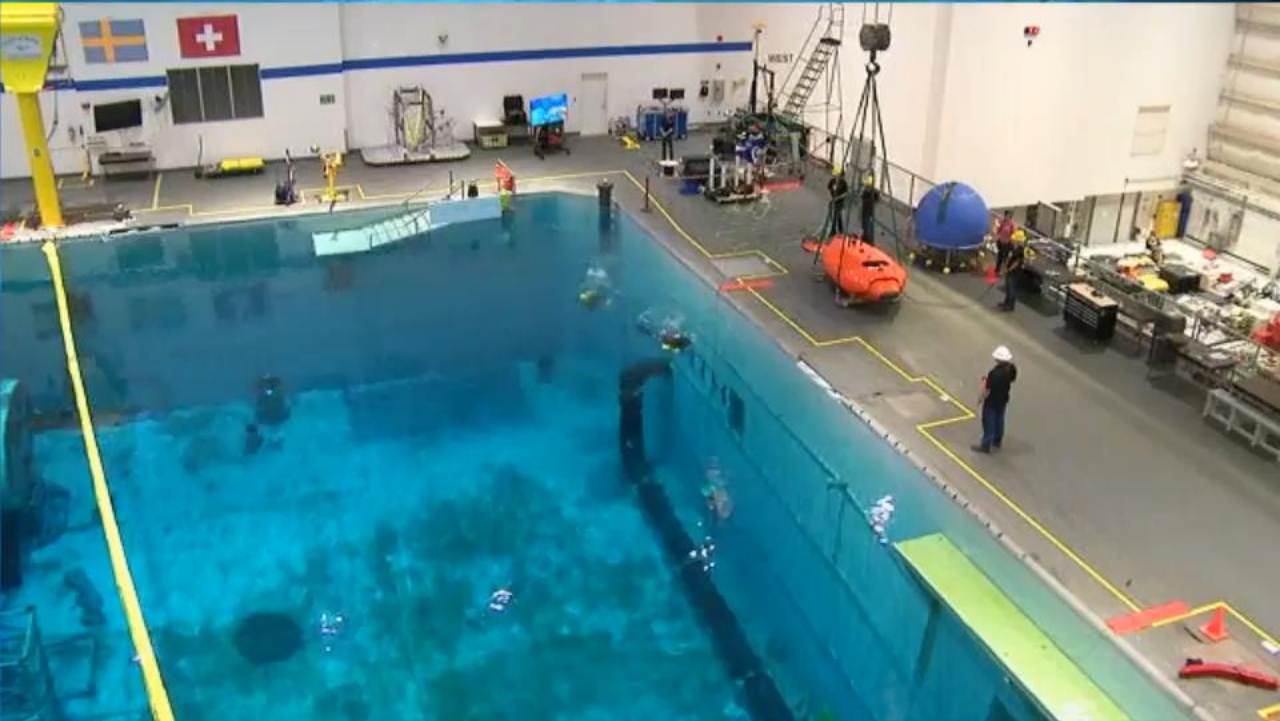
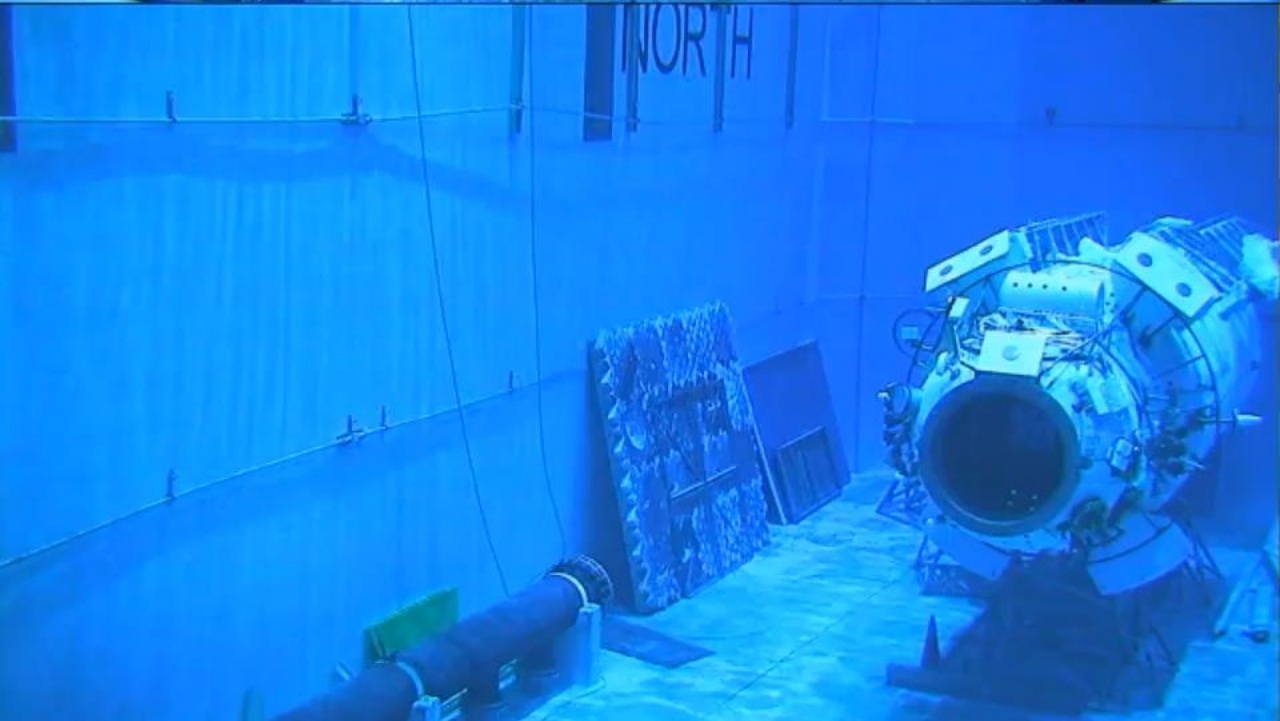
e-NOVUS

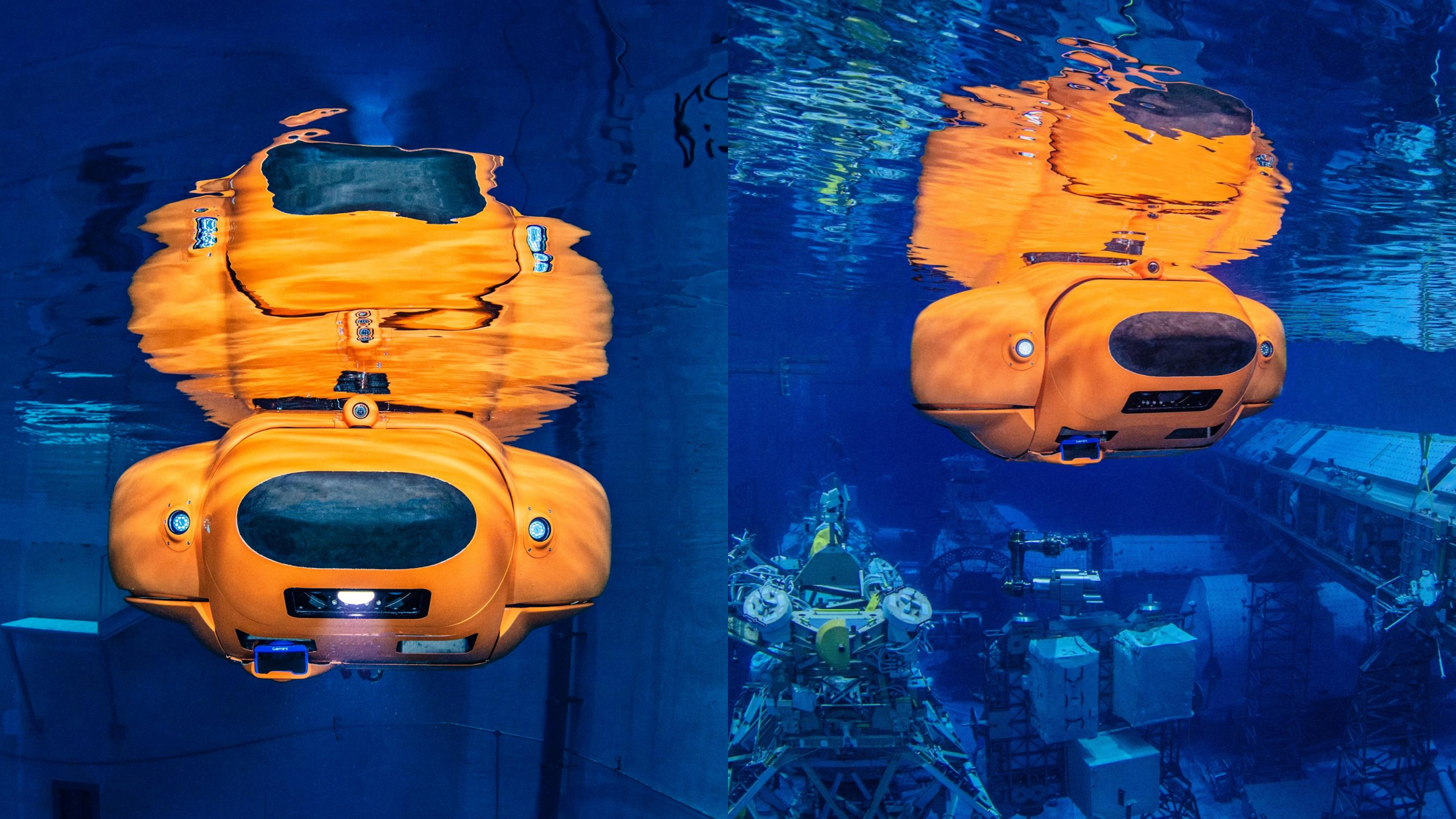
3.4m

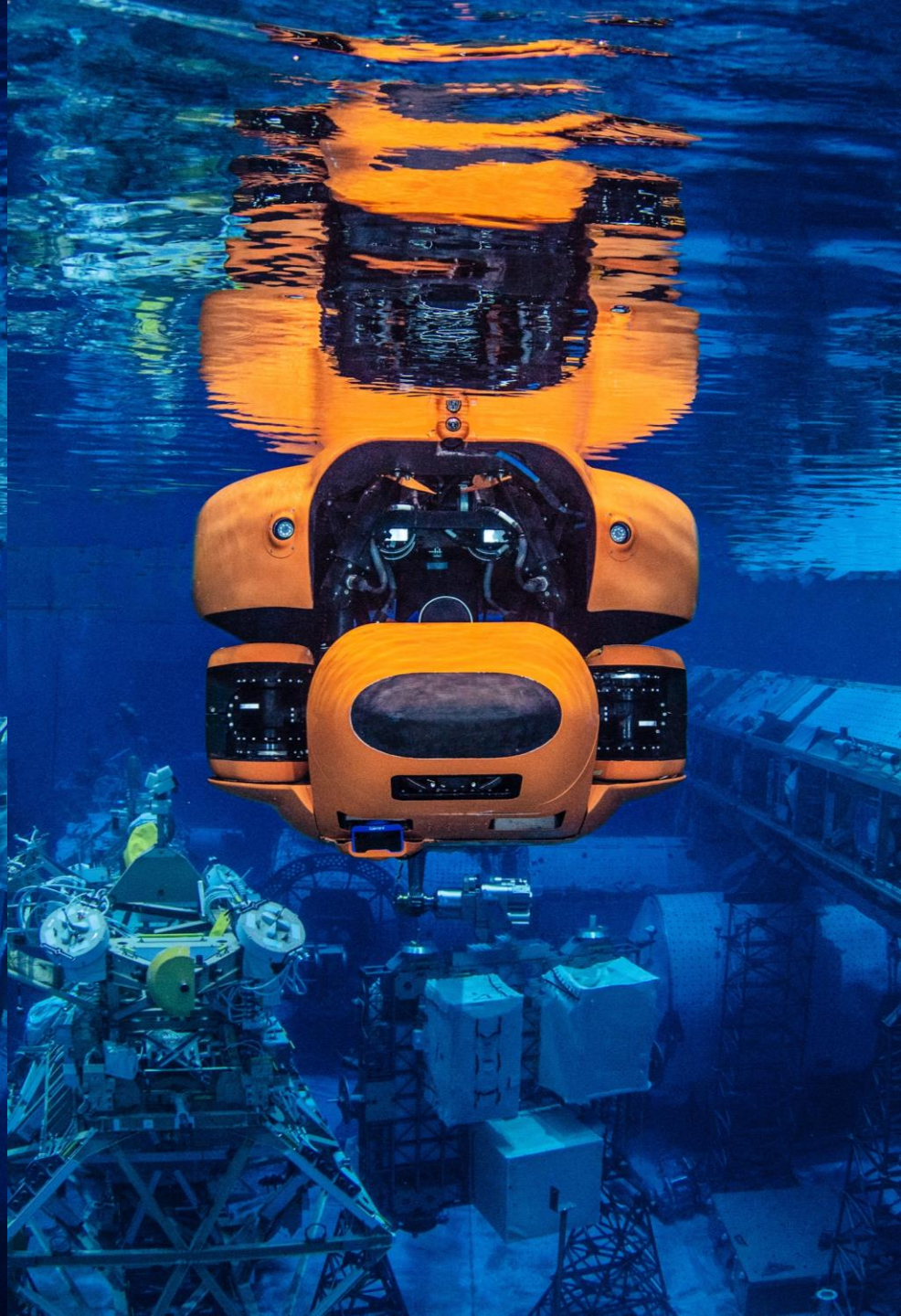
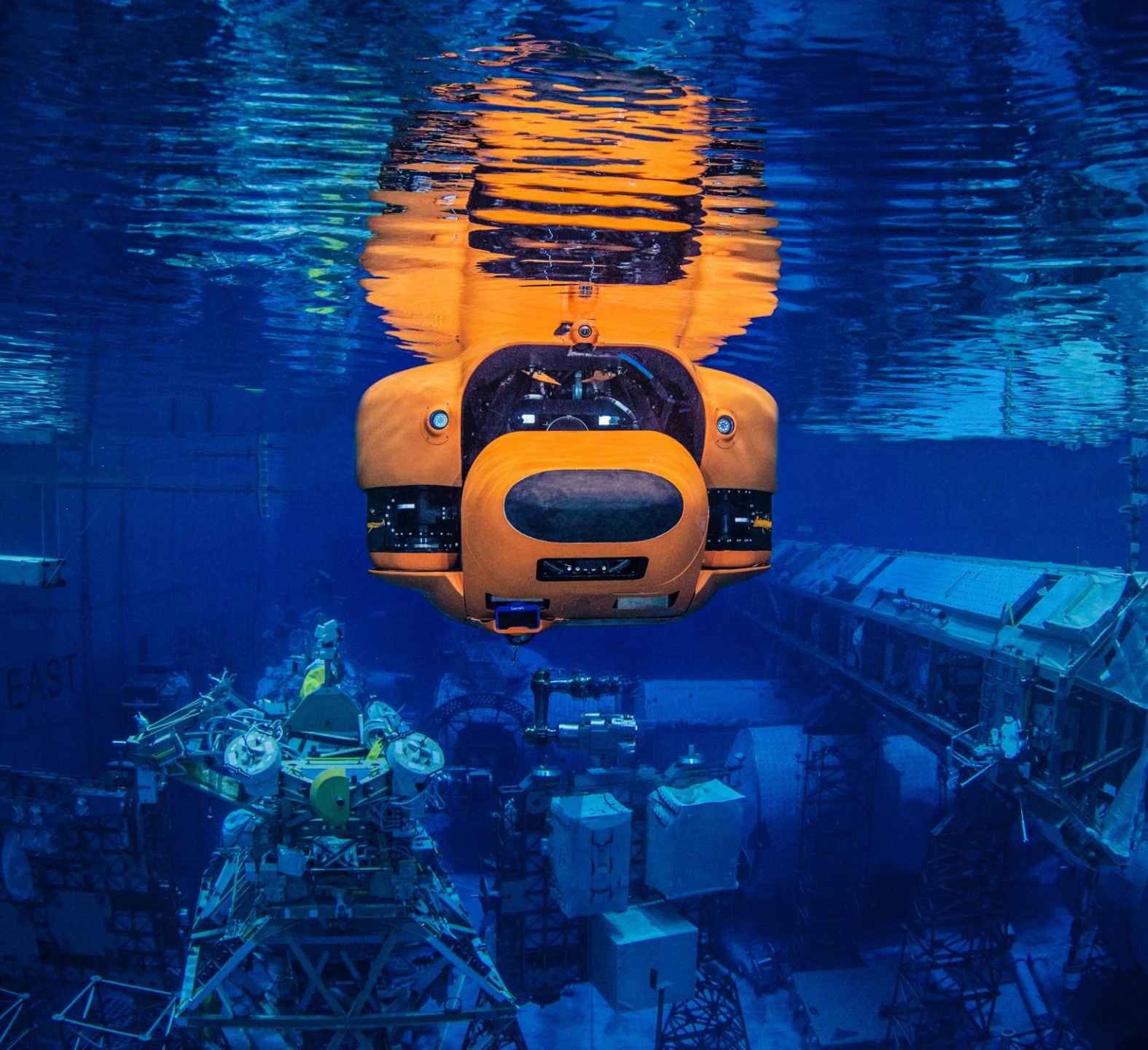


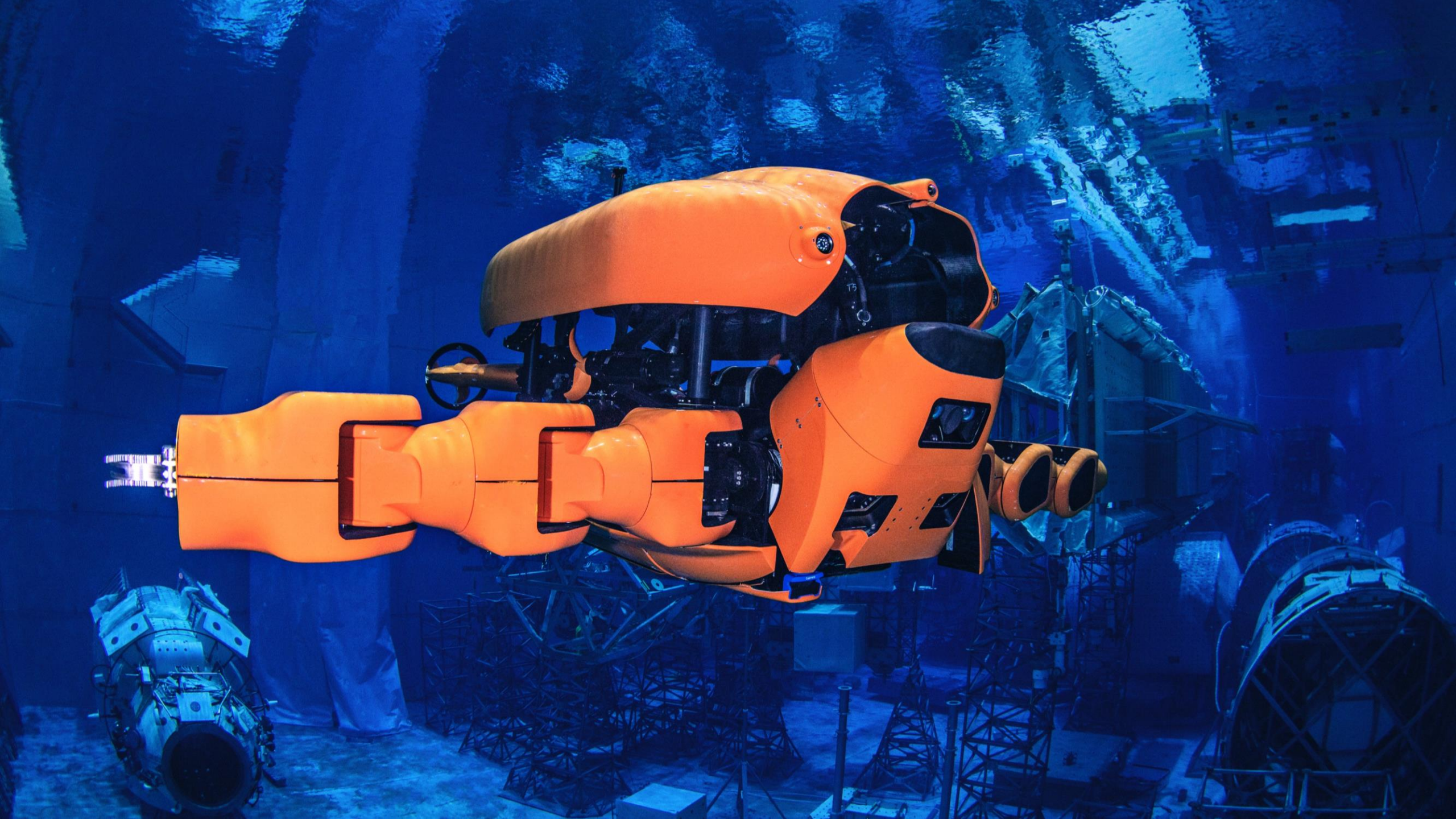
WHOI JASON

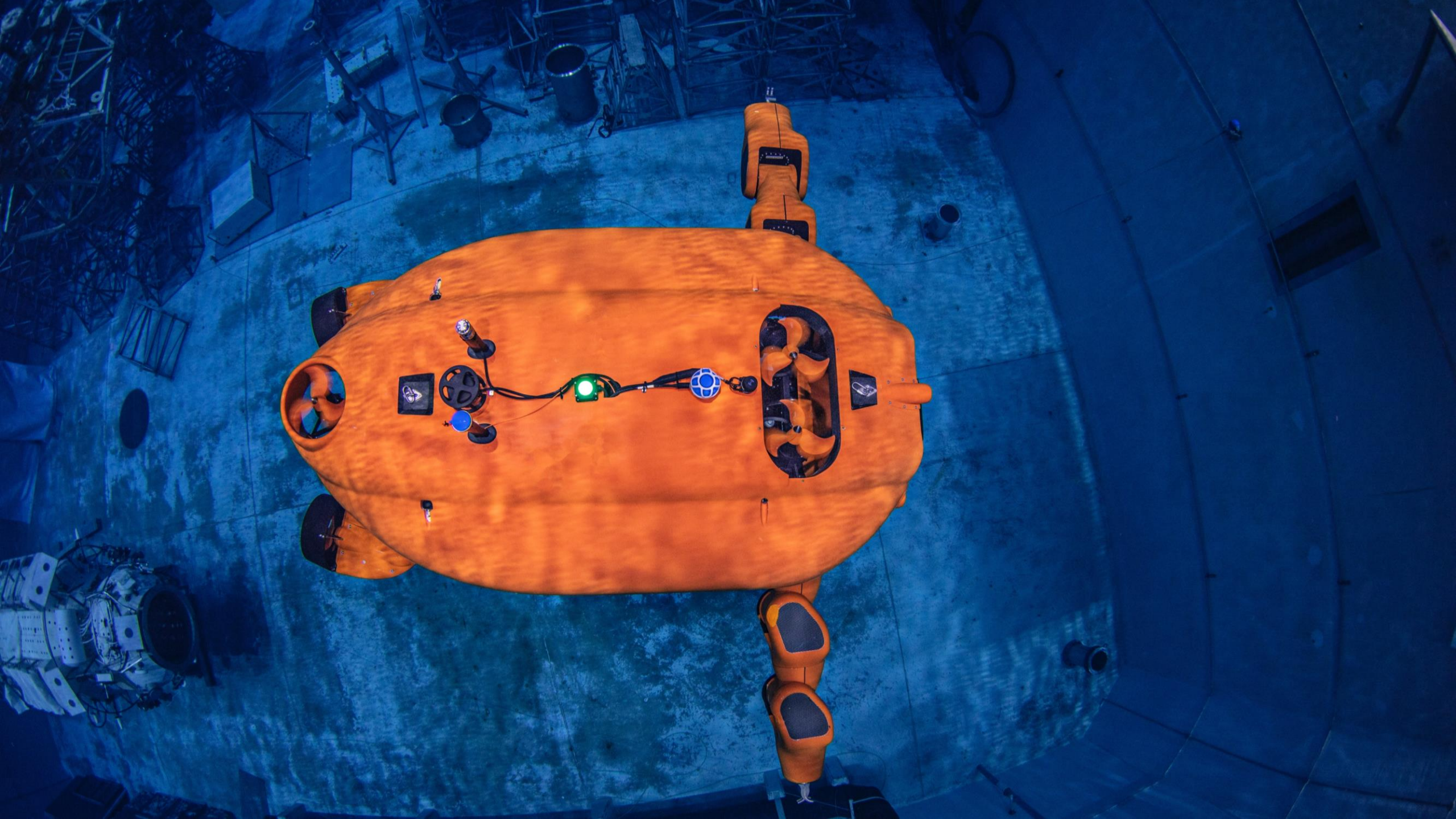
# ROV













Here to help life go right.®

Get A Quote

1,591 views | May 28, 2019, 01:33am

## Imagining How Technology Will Disrupt Future Energy Markets



Mark P. Mills Contributor  
Markets

f [Note: Derived from my lecture at the Drillinginfo Energy Disruptors summit.]

in It's common today for observers to speculate about how the energy future must look, rather than trying to imagine how it *might* look. The camp that "proposes" focuses on what governments and bureaucrats could or must force on markets. Meanwhile, imagination is in short supply among the energy punditocracy.



The "Tesla" of the subsurface. HOUSTON MECHATRONICS

Forbes: "For a peek at the autonomous future, check out Houston Mechatronics' Aquanaut, the Tesla of the subsurface. The tetherless, autonomous and artificial-intelligence-driven Aquanaut is the kind of technology that will not only lower deep-water operating costs, but also enable entirely new business models."



# #Disruption

---

It's hard to disrupt yourself

---

12% of Fortune 500 companies from 1955  
are still in business.

