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## Center for Robotics Software YouTube      Some of our work at UHCL

Tracking Control; Gesture Control, CRS Kickoff, NASA Swarmathon, Brain control of Baxter

[https://www.youtube.com/channel/UC\\_PHhwvgJ6AHIF\\_kN4o1JQw/videos?shelf\\_id=0&sort=dd&view=0](https://www.youtube.com/channel/UC_PHhwvgJ6AHIF_kN4o1JQw/videos?shelf_id=0&sort=dd&view=0)

[Active Tracking Control of Bebop Quadcopter](#)

[Baxter Controlled through EEG](#)

[Leap Motion Control of Bebop \(Houston Robotics Day 2018\)](#)

[University of Houston Clear Lake and San Jacinto College](#)

## Swarmathon

Swarmathon: A Swarm Robotics Experiment  
For Future Space Exploration

Luong Nguyen, Thomas L. Harman, Carol Fairchild  
Computer Engineering Department  
University of Houston Clear Lake  
Houston, Texas

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[Dr. Nguyen's Team the Winners](#)



## SWARMATHON

- Swarmathon is a cooperative agreement between the NASA Minority University Research and Education Program (MUREP) and the University of New Mexico in partnership with the NASA KSC Swamp Works.



Funded by:



Organized by:





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University of Houston  Clear Lake

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## Aquanaut: The Transformer Under the Sea - Houston Mechatronics Story

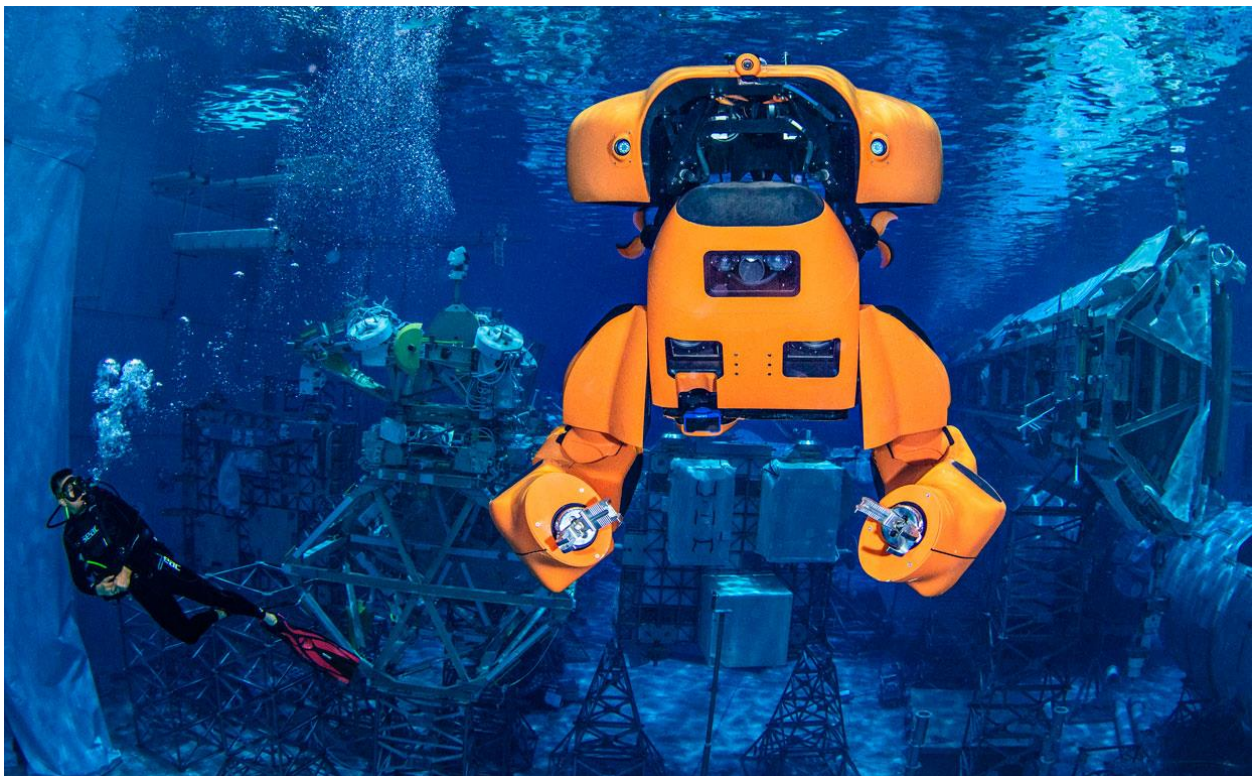
27,364 views • Mar 6, 2020 8:15

<https://www.youtube.com/watch?v=cdc5mQcJlqY>

Houston Mechatronics has built the Aquanaut, a transforming all-electric undersea vehicle. This untethered and AI-enabled vehicle is capable of efficient, long-distance transit and data collection in 'AUV' (autonomous underwater vehicle) mode. After transforming into 'ROV' (remotely operated vehicle) mode, the head of the vehicle pitches up, the hull separates, and two manipulator arms are activated allowing Aquanaut to accomplish advanced subsea operations. Watch how electronics powers this unique transformer under the sea. Be sure to subscribe to the Altium Stories channel to stay updated on new videos. Altium LLC is accelerating the pace of innovation through electronics. From individual inventors to multinational corporations, more PCB designers and engineers choose Altium software to design and realize their ideas.

<https://www.youtube.com/watch?v=4rJmF7xbQPI>

3:22



## Houston Mechatronics Rebrands As Nauticus Robotics

*Published: Dec. 1, 2021 at 7:05 AM CST*

WEBSTER, Texas, Dec. 1, 2021 /PRNewswire/ -- Houston Mechatronics, Inc., an offshore robotics firm based in Webster, Texas, is excited to announce the completion of a company-wide rebranding effort. Houston Mechatronics — or "HMI" to many in the industry — will assume a new visual identity and do business going forward as **Nauticus Robotics, Inc.**

"The name Nauticus Robotics makes clear our commitment to the blue economy," said Nicolaus Radford, the company's founder and CEO. "Our mission is to grow that economy through sustainable robotics that deliver value while protecting our planet's most valuable resources. This rebrand aligns us with that goal and positions us as a leader in our space."

In addition to the name change, the company has launched a new website at [www.nauticusrobotics.com](http://www.nauticusrobotics.com). (Our Interns have worked there.)

## Flying Taxi

**EHang, to make safe, autonomous, and eco-friendly air mobility accessible to everyone.**

16,000 views • Apr 22, 2020 3:09 This was neat at the Consumer Electronics Show in Vegas

<https://www.youtube.com/watch?v=ugkVrrr8I-4>

### **Robots 2020 Corona Disaster Misc**

**Robots join the frontline fight against coronavirus**

46 views • Jul 23, 2020 2:24

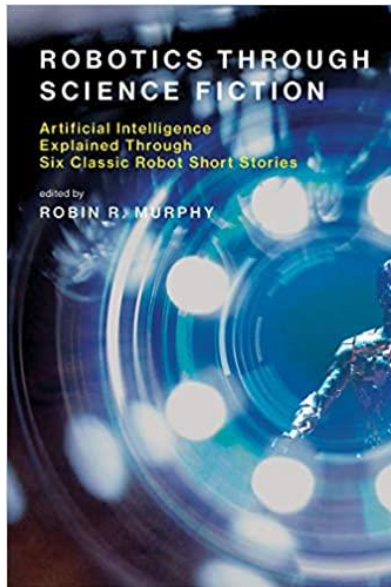
<https://www.youtube.com/watch?v=DU3m1Jp60-c>

Disinfecting robot by Fetch Robotics, BWR and Albuquerque

1400 views • Jun 18, 2020 0:38

[https://www.youtube.com/watch?v=ntvhII\\_EjzA&goal=0\\_da1848e85b-dab8ed1575-510175705&mc\\_cid=dab8ed1575&mc\\_eid=5acf01a803](https://www.youtube.com/watch?v=ntvhII_EjzA&goal=0_da1848e85b-dab8ed1575-510175705&mc_cid=dab8ed1575&mc_eid=5acf01a803)

Robotics Through Science Fiction: This is a good read.



**Artificial Intelligence Explained Through Six Classic Robot Short Stories (The MIT Press) Paperback – Illustrated, December 25, 2018**

by [Robin R. Murphy](#) (Editor)

**Will future robots & AI take over? New Yorker Cover**





## If HAL9000 was Amazon.com's Alexa

245,164 views • Jan 9, 2018 I share his pain!

<https://www.youtube.com/watch?v=JepKVUym9Fg>

2001 <https://www.youtube.com/watch?v=dSIKBlibolo>

## Mobile Robots in Business at UH



<https://dineoncampus.com/uh/starship-delivery-robots>

## Video 1:02

## At Your Service: Hilton College Rolls Out First Restaurant-based Food Delivery Robot in Houston

<https://www.youtube.com/watch?v=rrrGFNrzO7w>

## Amazon Warehouse Order Picking Robots

2:44

<https://www.youtube.com/watch?v=Ox05Bks2Q3s>

## TUG in Hospitals 1:49

<https://www.youtube.com/watch?v=WafkcuHtTtMc>

## **Google's NURO 0:59**

<https://www.youtube.com/watch?v=0xZsvs8iG0Q>

## **Self-driving robots deliver packages for e-commerce giant in Beijing 19:42**

<https://www.youtube.com/watch?v=zZtOuXjtYYE>

## **Domino's Using a Robot to Deliver Pizza in Australia - IGN News 1:10**

<https://www.youtube.com/watch?v=Y2j6m83LU7k>

## **Tired of Carrying Your Luggage?**

## **Robots Take Over Luggage Duties at Sheraton Los Angeles San Gabriel [Aethon TUG] 6:26 (NASA KSC Project)**

<https://www.youtube.com/watch?v=bsXRfZPo3Mw>

## **Let Your Suitcase Do the Driving 5:32**

<https://www.youtube.com/watch?v=EpiY4Efnq8U>

## **Self Driving – Good and Bad**

## **BMW Self Riding Motorcycle 3:15 Weird?**

<https://www.youtube.com/watch?v=XMuMoZlVYqs>

## **Aptiv Lyft BMW Self Driving Car at CES 2018 2:20**

<https://www.youtube.com/watch?v=L5Fq27QrZM8>

## **Volvo plows into pedestrians during safety demo 1:49**

<https://www.youtube.com/watch?v=WbW2UgmjJUA>

## **Tesla Driver Killed In Crash With Autopilot System Driving 2:37**

<https://www.youtube.com/watch?v=s8AHzY7xr10>

## **Automated Driving with ROS at BMW ROSCon 2015 Hamburg Day 2 Michael Aeberhard 28:30**

<https://www.youtube.com/watch?v=z9WzHXfYqFI>

**Munich.** With the FIZ Projekthaus Nord, which went into operation today, the BMW Group is opening the new heart of its global research and development network. The architecturally impressive building complex makes the successively expanded Munich Research and Innovation Centre (FIZ) one of the largest R&D locations in Europe and manifests the clear commitment to Germany as a location for research and development. The FIZ Projekthaus Nord is a milestone of the long-term "FIZ Future" program, in which the company has already invested about 1 billion euros.

<https://www.press.bmwgroup.com/global/article/detail/T0317727EN/building-for-the-future:-bmw-group-enters-a-new-era-of-r-d-with-fiz-nord?language=en>



When I picked up my car in Munich and toured the facilities, the research building was the largest of the complex! (TLH)

### **Top 10 mobile robotic stories of December 2021 – A read to be updated later**

<https://mobilerobotguide.com/2021/12/29/top-10-mobile-robotic-stories-of-december-2021/>



5 Cool Robots Of Future Technology You Must Have Soon

[https://www.youtube.com/watch?v=bqR\\_8BXitFQ](https://www.youtube.com/watch?v=bqR_8BXitFQ)

Melonie and Fetch 5:02 (She sold her company for BIG BUCKS!!)