

# How Eureka is designing the robot vacuum of the future

Arun KrishnanJan 05, 2022

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Ambient Intelligence



While Amazon won’t participate at CES 2022 in person in Las Vegas to prioritize the health and safety of our employees and our partners, we’re excited to highlight innovative products like the Eureka NER700 Atlas Orbit vacuum cleaner. The robot vacuum epitomizes the future of ambient intelligence, where technology doesn’t reside on one computer – rather it exists across multiple devices and in the cloud, and operates in a way that can be useful without being intrusive.

“According to the New Product Development (NPD) group, with 49% YOY growth over the past year, robot vac is among the fastest growing categories among floor care,” says Bonnie Wen, Product Management Director at Eureka. “The pandemic has greatly accelerated this growth. With people spending more time at home, they are looking for products like the Eureka NER700 to meet their hands-free cleaning needs.”

Features like AI mapping help robots understand the house layout, map carpeted areas and hard surfaces, and remember the location of the “home” docking station. In addition, the product team ensured that the vacuum's suction power – historically a drawback with robotic vacuums – delivers a powerful cleaning performance. The Eureka NER700 also vacuums and mops floors simultaneously, making for a complete cleaning experience.

"This was a feature that surfaced during customer research over the last year, with customers requesting more from their cleaning tools while spending more time at home," says Wen.

## Integrating Alexa with the Eureka vacuum

“It bears remembering that robot vacuums operate in a fairly crowded market,” says Wen. “Many of the robot vacuums have been around for years. And here’s where the voice comes in. It’s one thing to walk up to a vacuum and push a button. However, it’s so much easier to ask a robot to clean the house. Voice

Serrato foresees a world of ambient intelligence where robot vacuum cleaners do much more than clean the house. For example, while cleaning an infant’s room, a cleaner might detect that the temperature is too high. It could then communicate automatically with the central air conditioning system to lower the temperature. By using built-in cameras, vacuums could also detect and remove obstacles on the ground that might present hazards to the elderly.

Wen says that these features are no longer the stuff of science fiction. Instead, these use cases will shape how we think about every facet of product design going forward.

“Going forward you will find that the traditional distinctions between what products are supposed to do will blur and even disappear,” says Wen. “Rather, we will be thinking of how different products and services can work together to make the lives of our consumers easier. We are looking forward to creating this world of ambient intelligence, and are excited to collaborate with Alexa and Amazon in making this vision of the future a reality.”

## Resources to help you get started

Determine the right technology path to create connected devices with Alexa Voice Services	Learn how to build a smart home skill	Get help by connecting with a solution provider
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## Also at CES

From “Hey, Disney!” to “Hi, Bixby” and more: How leading brands are reinventing the customer experience with Alexa	3 Tips on how to think about robotics for your business from the CEO of Embodied Systems	Amazon announces new Matter support for device makers
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