

Karen Ordonez

Writing for Engineering

Product Review Essay

The product that's being reviewed is the Roomba 694 Robot Vacuum. This is a robot vacuum that goes and cleans the floor. A vacuum that can go on its own to help clean around is very helpful to others because probably some don't have the time or some might not have the ability to do it. It is a small circular vacuum which weighs roughly about 7 pounds. And its size is 13.4 inches wide x 3.54 in. It has two multi surface brushes and one edge sweeping brush, that adjust to different floor surfaces. The first iRobot was presented in 2002 and was used for U.S troops. It used to cost \$199.95 and now new roomba vacuums range from \$399.99-\$799.99 with just the iRobot. It was created by MIT roboticists Colin Angle, Helen Greiner and Rodney Brooks.

To first create a robot like this you need multiple engineers working together so you start with design engineers which help lay the outline of what is going to be created. Mechanical engineers and computer engineers also help build it together. Things that complete this robot are the motor, wheels, sensors such as infrared and photocall sensors which are a huge part since it is what detects the dust around the place and helps determine its surroundings on where to go clean. The robot chip which programs what the whole purpose of this purpose is and obviously set up its electrical system. Its battery type is Lithium Ion. This irobot comes with its own chargeable station as well.

The roomba vacuum functions by just pressing one button that turns it on and starts doing its job. Something good about this is that you can connect it to your phone as well and control the robot from where you are on the phone. It also works with Google and Alexa devices. A con

about this product is that the battery doesn't last that long but after it's low battery it goes back to its charging spot and starts charging on its own. The robot is designed when it comes to hitting things around a house because it's smooth all around and has things to prevent it from damaging furniture or walls. You can also set the robot to multiple languages which is helpful especially in a household that speaks more than one language.

In conclusion I would say this product is an okay product. It's good to have it around but not to completely depend on it cleaning everything well. I would recommend it to anyone because it does help clean the little dust which everyone always has. Especially someone with a busy household. I've looked at the more recent versions of these robots and they seem way better than the Roomba 694 Robot Vacuum. The sensors allow it from falling down the stairs which is so good because they could get damaged but I would say they are durable. The price of this I would say it's okay but the newer ones I would say are pretty expensive. This robot does help so it is always good to have one.