

# The Cutting Edge of...CES 2015

Perhaps one of the most significant things that caught my eye was the advanced TV technologies that were on display. All of the major companies had some sort of 4K and 8K televisions on display using technologies such as LED, OLED, and even QDs. To give you a sense of perspective what 4K and 8K mean; an HDTV has about 2 million pixels, while a 4K is almost 9 million pixels, and the 8K TV boasts around 33 million pixels! By using OLED (Organic Light Emitting Diodes) technology, televisions can run on less power and have higher resolution, but the cost is significantly more. QD (Quantum Dot) technology can bring about even less power consumption and an even brighter, more colorful picture than OLED, but this was extremely expensive and more likely to be a serious contender in the 5-10 year range.

Health and fitness technology had expanded significantly since the last CES show. There were heart, blood pressure, and glucose monitoring devices everywhere. One technology that was interesting was a remote temperature sensor that you can place on your child's forehead like a sticker; it then alerts your phone if your child develops a fever. Fitness monitors were also on display from more booths than could be counted. The fitness device that I mentioned earlier registered that we had walked 7 miles the first day and 8 miles on the second day.

The Gibson Guitar booth had some of the greatest guitars that I have ever seen concentrated into one tent. Making our way to the tent while dodging numerous flying drones, we saw a number of mini smart cars that boasted >60 mpg. Speaking of drones, there were more booths with a variety of land, air, and sea drones than you could imagine. 3D printers had a very strong showing compared to last year, but most of the companies had FDM (Fusion Deposition Modeling) printers with very few new options from the other types of 3D printing. The major automakers all had concept cars utilizing some sort of internet connective technology for navigation, communication, and entertainment (it looks as if most of the automakers are working on driverless cars now). With the increased demand for higher picture quality in TV broadcasts to match the increased resolution in TVs, several internet and movie providers were touting increased internet speeds and streaming services to keep up with the increased data demands (I'm sure we can associate this with an increased price from said service providers). Finally, right before leaving the show, I got to ride on Rocket Skates (though I wasn't very good)!

Thank you for taking a brief journey with me on our trip around the 2015 CES. I look forward to providing you with articles over the next year to examine more Cutting Edge technologies from around the world!