

The electronic device I chose for this online challenge was a Samsung S4. There are two reasons that I and my team choose this device. The first reason was that I wanted to see how a phone looks when you look inside it because I have always wondered how it looked and I thought it was going to be very cool (and it was). The second reason is that I wanted to learn how to fix a phone because the one I used has a broken USB port so it won't charge correctly and that I wanted to be able to help people with broken phones and fix it for them. Some of the components that I found in the Samsung S4 were vibration motor, proximity sensor, camera, speaker, USB, and microphone assembly but there were no TI components found on the phone.

The components I found in the Samsung S4 can do a lot of things together and separate like make the phone vibrate when called also known as the vibration motor this can be useful because it can notify you when someone is calling or you get a notification. The second thing that the components in the phone can do is turn off while you're calling someone so you don't press random things with your faces which most people that created the phone call proximity sensor can be useful because you can't just type up random things or hang up on the person you are talking to.

The third thing that the phone can do is take pictures of anything that everyone one that uses a phone knows as a camera. This can be useful because then you can keep your favorite moment with you forever unless the phone is broken (but then you can just transfer them over). The fourth object that I found is something that plays sounds which everyone who calls or watches videos knows as a speaker. This can be useful because then if you're blind or watching a video you can hear what they are saying instead of reading it. The fifth item is the place where you put the USB charger cable into the slot to charge the phone which is also known as the USB port this can be useful because then your phone basically has an infinite battery and will never die unless broken.

Finally, the last component that I found is what picks up your voice when speaking with someone on the phone or when you use speech to text which is called the microphone this can be useful because. In conclusion, the lesson I found out was that there are a lot of components that can help phone work in many different ways. Some of the ways can be through life

and other ways can just be an improvement in technology. I also learned that every component has a completely different role to help the phone work correctly and help it be noticed around the world by many different people.



This is where the USB and speaker is located.



This is where all the components are located



This is all the hidden Components



This is where all the sound comes out from.