

Electronics Online Challenge

For our competition we decided to take apart a Motorola g4 phone. It's an old phone that one of our team members used to own and use. We thought taking apart this phone was a good idea because the person who owned it dropped it quite a bit and we wanted to see how much damage it sustained over time. This was also a starter phone so we thought that it might not have the most high tech components and parts. We also wanted to choose a fairly basic competition that didn't require much coding because this is our first competition out of many.



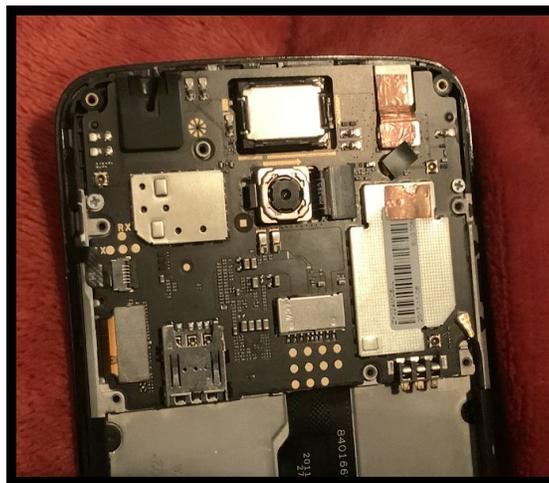
This is what the phone looked like after we took the cover off. As you can see the camera and the battery are now showing.

Our first step when taking apart the motorola phone was to take the back protector off of the phone to reveal the battery, which looks like a black flat box, which revealed a little chip that could slide out. After that we unscrewed some screws and took the camera off which revealed a whole board with a bunch of little tech pieces. This was the motherboard that holds all the other components. Sadly there were no TI components in the phone. There was nothing else we could take apart after that. After examining the phone for a bit we did some research of the parts in the phone.



This is the battery of the phone when it's out. Without this the phone wouldn't turn on.

The first thing we saw was the battery of the phone. The battery of the phone is the part that makes the whole phone work and is kinda like the phone's power system. The little chip that the battery revealed was a data chip. The data chip stores all the data and memory the phone has. Without the data chip the battery would just run a blank phone with no memory or saved data. When we took out the camera of the phone that is obviously for taking pictures we saw the whole motherboard. It reminded me of a landscape town of technology. The motherboard is the heart of a phone. It holds together important components of a phone like the CPU.



This is the motherboard of the phone. This part of the phone holds all the important components.

In the end, we ended up learning about the many different components in the motorola phone. When we took apart the phone we found a motherboard, which holds many components, a camera, a battery, the thing that powers the overall phone, the memory card that saves data on the phone and a lot more. While we were taking apart the phone we learned that there are many more parts in a phone than we originally thought. Overall doing this as our very first competition was really fun and we can't wait to do more competitions.



Here is what the phone looks like without the battery. It also has the camera on from before we unscrewed it.