



TEXAS INSTRUMENTS

MAIN PARTS:

- **Motherboard**
 - **Battery**
 - **Screen**
 - **Speaker**
- **Plastic Keyboard**
- **Gel Keyboard**

Our team, 6403E, choose to break down one of our teammates old Uniden 6.0 home telephone. We selected this because everyone nowadays use smart phones with touch screens and no dialing or buttons. We wanted to open it up and see how many parts it used. We of course found the main motherboard. On the motherboard there were a few main sections such as the battery which is rather small and the diffuser. During the breaking down of the parts we didn't find any TI parts in this object. We found what we found is a diffuser. We thought this was the most interesting object inside the motherboard because it is what lights up the screen. this means it is used in all electronics with screens. So everything from a small pedometer to a large PC. We also found where the battery was located and we know that it runs the phone for the most part. Lastly, we found the speaker that connects to the motherboard. This was connected to the inside back of the phone which made our team a little confused by how you are able to hear it quite clearly. Then, we realized that since it was connected to the motherboard it could change how it works. There was a keyboard with the numbers and a few other buttons, but what we didn't know was that behind that there was a gel pad that helped to press the buttons so that it would actually work. This was super cool to find out because most of us had no idea that it was a part of the phone. In conclusion, we all learned about how the motherboard is a major factor in the phone. At first we weren't so sure about choosing this online challenge but then after getting into it our team was extremely amazed by what we found and we were all so happy that we got the chance to learn about this. Our team agrees it is a great learning experience and we would recommend it to other teams!

The screen that lights up to show
Who is calling.



The plastic and gel
keypads



The main motherboard that
runs the phone and the speaker
that allows you to hear the other
voice.

The main battery of the telephone



