What did we choose? Why?

We chose an old computer. We didn't want to waste anything valuable and since this was quite old, it was a good choice, though we had other options. When we thought about it, it became more and more clear to us why this was the best choice possible. A VEX brain is just a computer! All the necessities of computers have been the same for a while. In reality, this is an even better choice for the real world - almost everything we do in the present day is technology-based.

Our unit; a computer that is not as modern as those we use today.

Chips and components:

- Case
- Hard drive
- SSD
- Memory card reader
- CPU
- Heat sink
- Power supply
- RAM
- Display card
- Fans
- WiFi card
- Motherboard

This photograph depicts all of the components of the computer laid out in an organized fashion!

There were no Texas Instruments components in this system.

What do the components do?

Case - Stores all the components and has access points for the user.

Motherboard - Allows all the components to interact with each other.

Hard Drive - The main memory of the system. The hard drive works by physically writing information.

SSD - Same uses as a hard drive - it can be used to boot, and it can be used to store information permanently but works faster than a hard drive.

Memory Card Reader - Used to access different types of memory being plugged into the device.

CPU - Directs all the functions of the computer, as the name suggests, and does most of the processing that a computer needs.

Heat Sink - Keeps your CPU cool for smooth and efficient performance.

Power Supply - Distributes power to all components in the computer.

RAM - Also known as random access memory, RAM is what keeps everything on your computer running in the background.

Display Card - Helps the computer render graphically intensive programs/images. The display card helps upscale images and allows the content on the screen to run smoother and quicker while being much more powerful than the integrated graphics on a motherboard.

Fans - Has the same task as the heat sink - keep everything cool. However, the only difference is that the fans are meant to cool the heat sink and the other components in the computer.

WiFi Card - Allows the computer to connect to the Internet at faster speeds, whether you are doing a wired connection or connecting to the WiFi in your home.

Conclusion

This was a great online challenge, and we highly suggest that all teams partake in this option, even if they are not extremely well-versed in the topics that the challenge revolves around. The project itself puts into perspective what our everyday lives function on, and helps us visualize the future (of course, there are still PCs that look exactly like this; when this was made, however, there were no phones that were as powerful as computers, and the features we seemingly cannot live without now were absent in the past).

Pictures of the components:

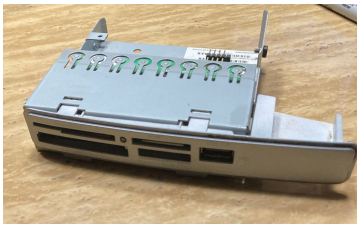
The case.

The heat sink.

The hard drive.

The SSD.

The power supply.



The memory card reader

The cpu

The display card.

The RAM.

The motherboard.