## What Is Inside a Computer

A while ago there was a time, where computers use to not be a common thing in our homes, but now years later most of us have them. They help us do things more conveniently and easily, which would have taken us a long time if we didn't have computers. With them we can now do things like, shopping online, interacting with people miles away, and learning things the average person wouldn't have known years ago. These computers can be very small like, a phone, or big like, a laptop or desktop. This is going to focus on the main components of the desktop. Most computers are made up of a bunch of small components, that when put together make a system that lets you interact with applications. Individually these components do interesting processes, which when put together, can interact with one another to do more complex things.

One of the most important part of the computer is the motherboard. It is the component that connects all the parts to one thing, so that complex processes can happen. It is what holds all the required components to make a computer function properly. This basically means that the average motherboard will have many slots and connectors, so that other components can come together to interact with each other. Most motherboards will come barebones and needs parts in order to function, by itself the motherboard is usually useless.

Now, the actual most important part of the computer is the CPU. This is essentially the brains, which processes most of the things going on, in the computer. The abbreviation "CPU," stands for central processing unit. This means that it gets sent instructions on what to do, based

on the program you throw at it, and depending on the CPU, it can do it really fast or slow. It also does arithmetic and logic operations, which means it does math in order to be able to do things. Without the use of a CPU, you really couldn't do anything with a computer, even if it had all the components needed and connected to the motherboard. This is the reason to why the CPU is the most important part of the system. It does mainly all the work and interacts with other components to do even more complex things.

These complex things, can come from creating a 3D CGI character to just playing a game. With the CPU alone, this can't be done or it will be really slow. This is where the GPU comes in to help the CPU process things, it can not. The GPU connects to a slot called the PCI Express, which is a slot on the motherboard that let it be able to interact with the CPU and other things really quickly. The acronym GPU, stands for "Graphics Processing Unit." It is supposed to handle 2D and 3D graphic operations, which can be from images, videos to games.

Another important component to the computer is called RAM. It stands for "Random Access Memory," and is actually way different to something like the hard drive, which is just used to store things like programs and images. The reason RAM is different, is because it is actually way faster in reading data and allows programs to run effectively faster without it lagging. So this does mean that with more ram, you can load the data from your hard drive faster, which does let programs load faster, but up to a point, since some programs won't use a lot of it to do tasks.

The last important component is called the power supply, this is needed in order to power the whole system and spread it out to different components that is connected to the motherboard. What it essentially does is receive power from an outlet and converts the current coming from it which is usually AC and makes it into DC. This is important, since in order to power the whole computer up, it needs DC. Also, depending on how powerful the different components are, they might need power supplies from 200 to even above 700 watts. But, most computers would probably use around 500 watts. The other thing which is important, is that the power supply, controls how much voltage the components need, so that the whole computer won't overheat. This reason this is important is because too much heat inside a computer can cause damage to the components .

In short, a computer is made of unique components, which by themselves wouldn't do much. Together they make up something, that is designed to interact with one another to do complicated processes. They let us do things we couldn't have done years ago and keep on getting better performance within every year. They are becoming so powerful, that they are able to simulate reality, in certain things so well. This is why it has left a great impact in people's lives and is used today.