Robotics Final RECF Reverse Engineering

By: Fox Gonzales, Lulu Scott, Madyson Music, Wesley Rahder, Darren Le, and Arshaan Dhaliwal

Our team met on December 11th in order to complete the Reverse Engineering RECF activity. We chose to disassemble a computer because a computer is very important in a person's life. We use a computer to do school assignments, write emails, and just go on the internet. Without computers, the world would not be as advanced as it is right now.

Together we deconstructed a computer with Fox, Wesley, and Madyson doing most of the dismantling and Lulu doing the picture taking. The main things we have photographed are the before photo which includes the CD player and ports to the top left, the left harddrive to the bottom left and the power box to the top right. (picture below)

The CD player and ports of the computer are where you input CDs to show on the computer monitor and ports to either charge or use an HDMI to cast things on a separate screen (like a TV). (Top Left)

The power box/supply is the most vital part of the computer. It changes the AC current of the home into a DC current for the computer to work and project images on the monitor. It generally contains the power cord receptacle and the cooling fan. (Top Right)
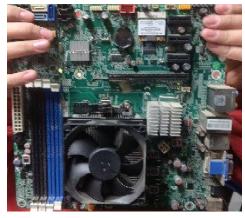
The last item explicitly shown in the photo above is the harddrive. The harddrive (aka hard disk) uses spinning disks to read/write data. This is stored within the harddrive case to protect it from

microscopic dust. This item is used to store massive amounts of data that are contained on computers that have them. (Bottom Left)

The next image is of the motherboard with the CPU.

The motherboard of a computer is the foundation of the whole thing. It allocates power and aids communication to/from the CPU, RAM, the harddrive and the video card.

The CPU (central processing unit) is like the brain of the whole computer. It processes the information that comes from the programs, the operating system, as well as other parts of the components. It uses binary code (0's and 1's). The fan inside of the cpu helps cool down a computer when a computer is trying to handle something it can't such as having multiple games playing at once.

 (motherboard with CPU)

This next photo shows the 4 GB of RAM that the computer contains. RAM stands for "random-access memory." It's a fast and temporary storing unit for the computer. It is generally accessed right now or in the next few moments. It records information from the website that you're using at the moment to the movement of your mouse on the screen.

In conclusion, a computer has multiple parts to help it function. The cpu is the main brain of the computer that processes information, ram records information from the website you are using, the power box supply obviously powers the computer, the harddrive is used to store data, and multiple ports are used to have HDMI and charge the computer. Without these main essential parts, a computer would not be able to go on your favorite website or be able to write emails. We have learned that a computer is made up of many different little things that have their own function to help the computer function as a whole.