

Monitoring a Monitor

By: Sparks, Caleb & Floyd, Jobe

Team: 22439B

Millbrook, Alabama

For our reverse engineering project, Caleb and I disassembled a monitor. We chose a monitor in order to see what makes it work and what kind of tech was in it. We chose an older model, so we wanted to see how old the tech in it was.

Some identifiable parts were the motherboards, screen, & a thick piece of plastic. The motherboards were among some of the first things we found which were in the back area of the monitor. The screen had many layers including, two layers of the screen itself, three sheets of polarized film, & a piece of plastic. A piece of plastic was used to support the screen.

We found different layers used for the screen, and we also found multiple motherboards. Many metal sheets separated different layers in the monitor, making it harder to take everything apart. The motherboard connects all the hardware to the processor that distributes the electricity from the power supply, and additionally, it defines storage types, memory modules, and graphics cards. The metal sheets that separate the inside layers provide support and protection for the inside parts, like the motherboards. There were wires attached to the motherboard connected to the video graphics array (VGA). Also, the digital visual interface (DVI) can connect to high-definition multimedia (HDMI).

Sometimes, there is more than one motherboard in a monitor, multiple layers of the screen, and many sheets of metal to separate the parts that provide protection. In completing this disassembly, we learned that there is more than one motherboard. We also learned metal sheets are used to separate the layers inside the computer causing the screen to have many layers.



