



# The Inside of the Dell Inspiron

Explore and document the inner workings of an  
electronic device.



# 2772J

We are an emerging all-female and non-binary Vex Robotics Competitions Team, 2772J, or "The Metalbenders". Born out of the struggle of inclusivity and positively learning STEM concepts, it is an all-girls robotics team based on the foundation of practicing robotics in a safe, positive environment.



# Background

We choose this because we use laptops everyday in life, so we wanted to know its inner components. We started this project by looking for instructions. Then we followed them and recorded our data.

From this, we learned that computers have many complex sensors and mechanisms to keep the system running. Machines needed to be built not just to perform their function, but to maintain themselves (Ex. The fan prevents overheating).



# Mainboard



The Mainboard is where most of the mechanics of the computer is held. This board is underneath the keyboard(.on slide 3). It contains the motherboard, cpu, usb and microphone ports, and etc. The Mainboard is also the bottom half of the laptop.

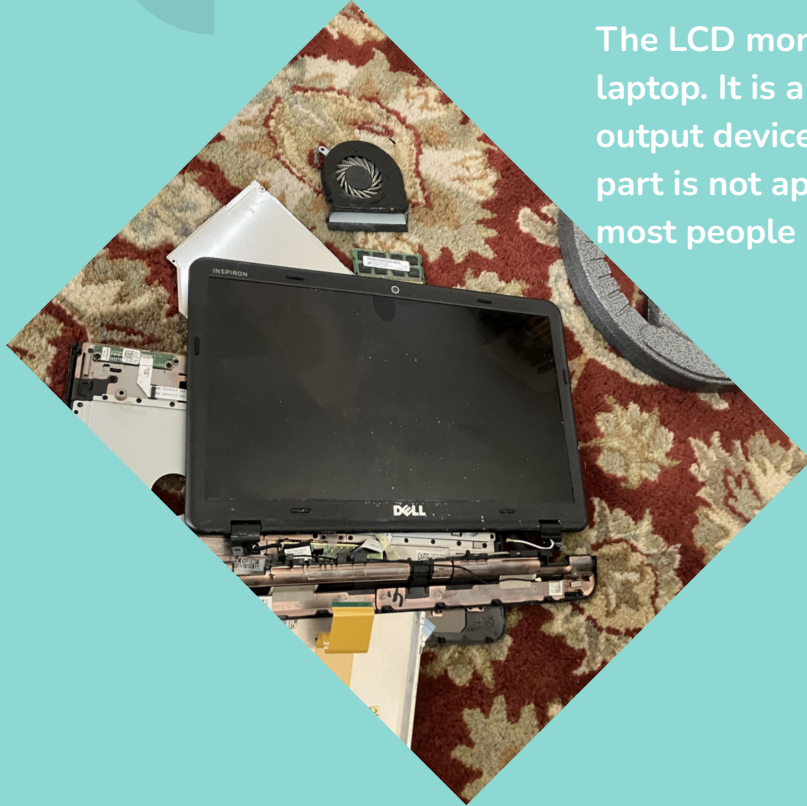
# Keyboard



The keyboard is one of the parts of the computer that inputs and idea or message to the computer. This part employs a keyboard laptop jumper to convey the data. The keyboard contains 104 keys.

# LCD Monitor

The LCD monitor is the screen you see when you open your laptop. It is a part of the laptop that show you data or is a output device. It has a camera(input device) at the top. This part is not apart of the LCD monitor. The LCD monitor is were most people look at when using a computer.



# Computer Fan



Fans cool down objects and ventilate air. This fan does the same thing, it cools down the computer. When you use your computer, your computer heats up. The fan is made to cool down the computer.

# USB & Microphone Ports



The USB and microphone ports are used to connect different item or attachments. It could be a USB you attaching or a mouse or a microphone. The ports are pivotal roles of connecting outside data.

# Motherboard



The motherboard is a circuit board containing the important components of a computer or other devices, with connectors into which other circuit boards can be slotted. The most important part of the computer. Contains cpu.

# CPU



The central processing unit is the electronic circuitry that executes instructions comprising a computer program. The CPU performs basic arithmetic, logic, controlling, and input and output.



## Links

[Central processing unit - Wikipedia](#)

[Wikipedia, the free encyclopedia](#)

[Oxford Languages | The Home of Language Data \(oup.com\)](#)