

Geared Up Reverse Engineering Online Challenge

By Chase Chronic, Charlie Vonbank, and Tobin Gangi

Geared Up

81101B


Mankato, MN


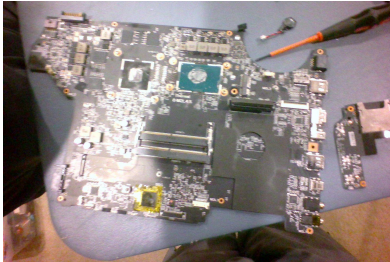


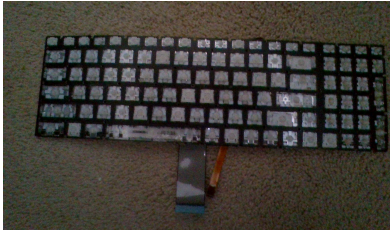
Introduction

For this challenge, we chose a laptop that has recently broken. The hard drive crashed, and because of that, there are no pictures available of the hard drive. 3 of our team members worked to disassemble the computer, and we took pictures of what was inside. The fourth team member (Ben Carlberg) was unable to come.

Parts List

These are all the parts we found inside the laptop.

Picture:	Part Name:	Function:
	CPU	Controls the machine, solves problems, and decodes information.
	RAM	Stores easily accessible data and reads files
	Cooling system	Keeps the computer from overheating
	Battery	Powers the computer
	CD drive	Allows CDs to be read by the computer

	Keys	Allows user input by typing
	Motherboard	Holds and connects the parts
	Thermal Putty	Helps the cooling system cool the computer
	Turntable	Spins the CD
	Keyboard (without keys)	Detects what keys are pressed

Conclusion

We had lots of fun taking apart the computer. I was very surprised at how tiny all the parts were and how little room was used. I was also disappointed that we couldn't take apart the screen. It was a great experience and we would all gladly do it again!

Sources:

[https://www.dell.com/support/kbdoc/en-us/000147805/guide-to-optical-disk-drives-and-optical-discs#:~:text=An%20optical%20disc%20drive%20\(ODD.of%20your%20important%20data%20files.](https://www.dell.com/support/kbdoc/en-us/000147805/guide-to-optical-disk-drives-and-optical-discs#:~:text=An%20optical%20disc%20drive%20(ODD.of%20your%20important%20data%20files.)

[https://www.khanacademy.org/computing/computers-and-internet/xcae6f4a7ff015e7d:computers/xcae6f4a7ff015e7d:computer-components/a/central-processing-unit-cpu#:~:text=Central%20Processing%20Unit%20\(CPU\),and%20how%20to%20process%20it.](https://www.khanacademy.org/computing/computers-and-internet/xcae6f4a7ff015e7d:computers/xcae6f4a7ff015e7d:computer-components/a/central-processing-unit-cpu#:~:text=Central%20Processing%20Unit%20(CPU),and%20how%20to%20process%20it.)