



# PORTFOLIO #4

## Presentation

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# CONTENT

- **Computer Hardware**
- **Software**
- **Their implementation in the different institutions in the community**
- **My Analysis/Reaction**

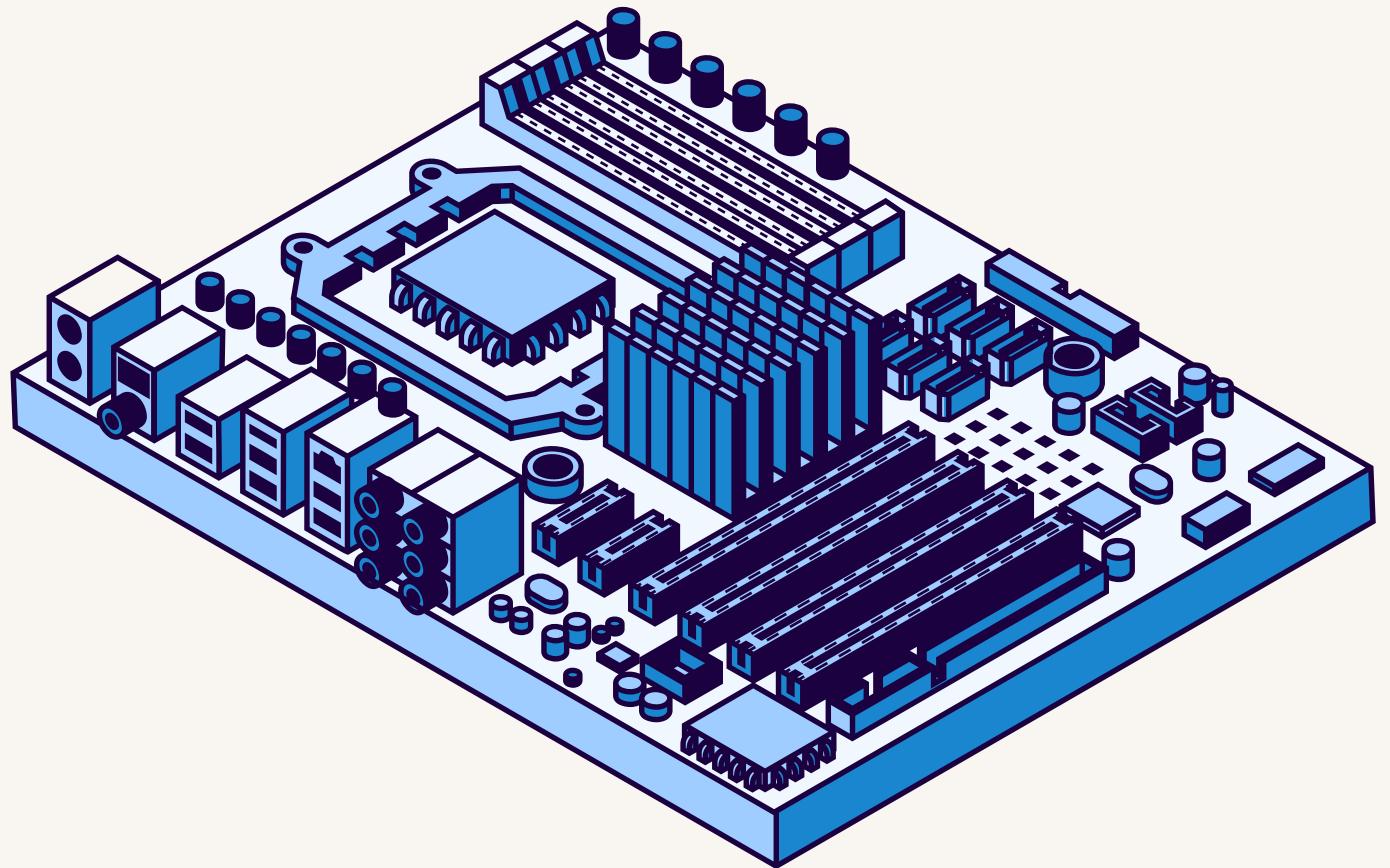


# COMPUTER HARDWARE

## WHAT IS COMPUTER HARDWARE?

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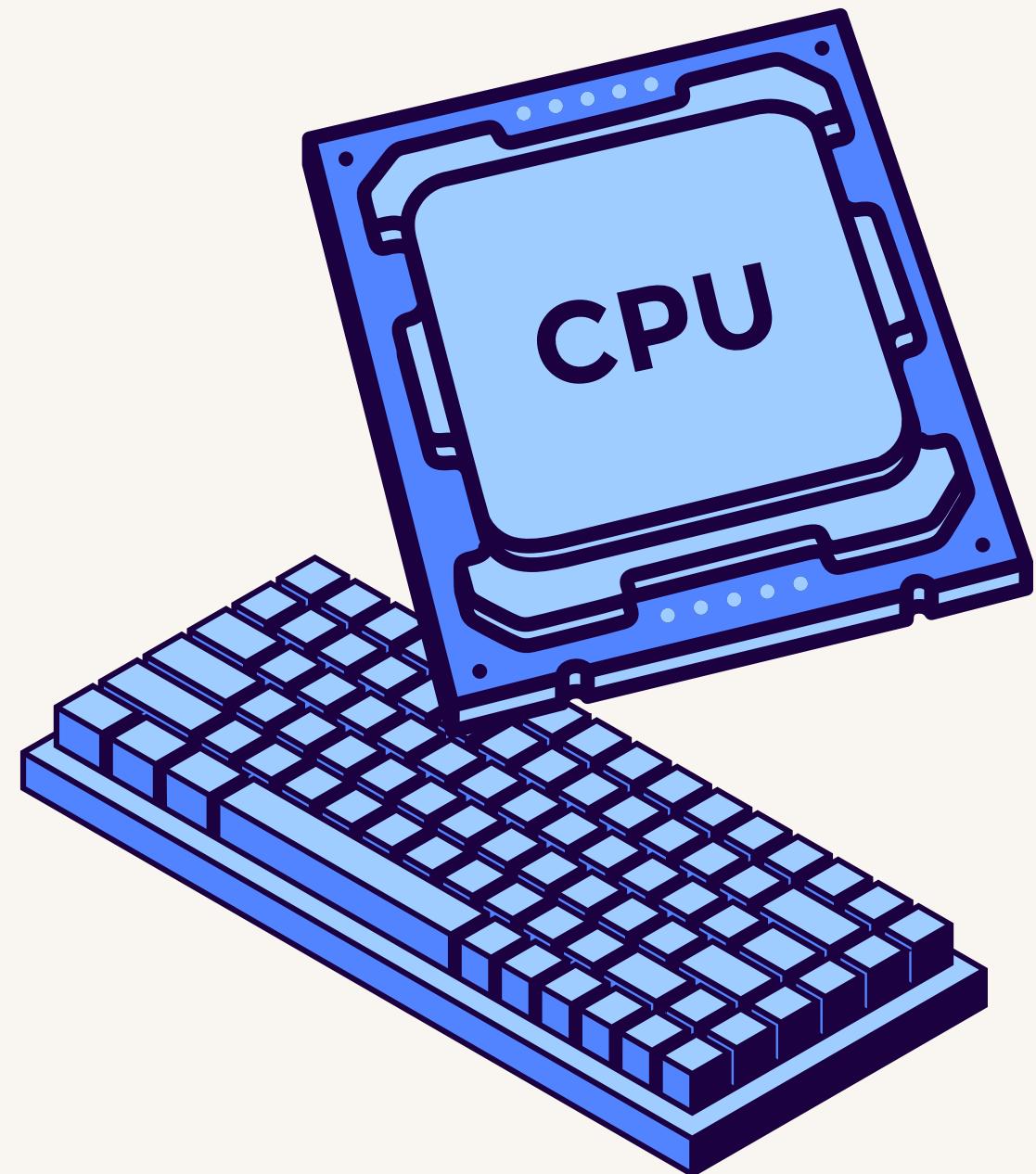
- A computer's physical components are referred to as computer hardware. The equipment itself, along with all related peripheral devices, like keyboards, disk drives, displays, printers, etc.
- It is the physical equipment used for the input, processing, output and storage activities of a computer system.



## EXAMPLES OF COMPUTER HARDWARE

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- CPU (Central Processing Unit)
- GPU (Graphics Processing Unit)
- Motherboard
- RAM (Random Access Memory)
- HDD (Hard Disk Drive)
- SSD (Solid-state Drive)
- Power Supply Unit (PSU)
- Keyboard
- Mouse
- Monitor
- Printer





# REFERENCES

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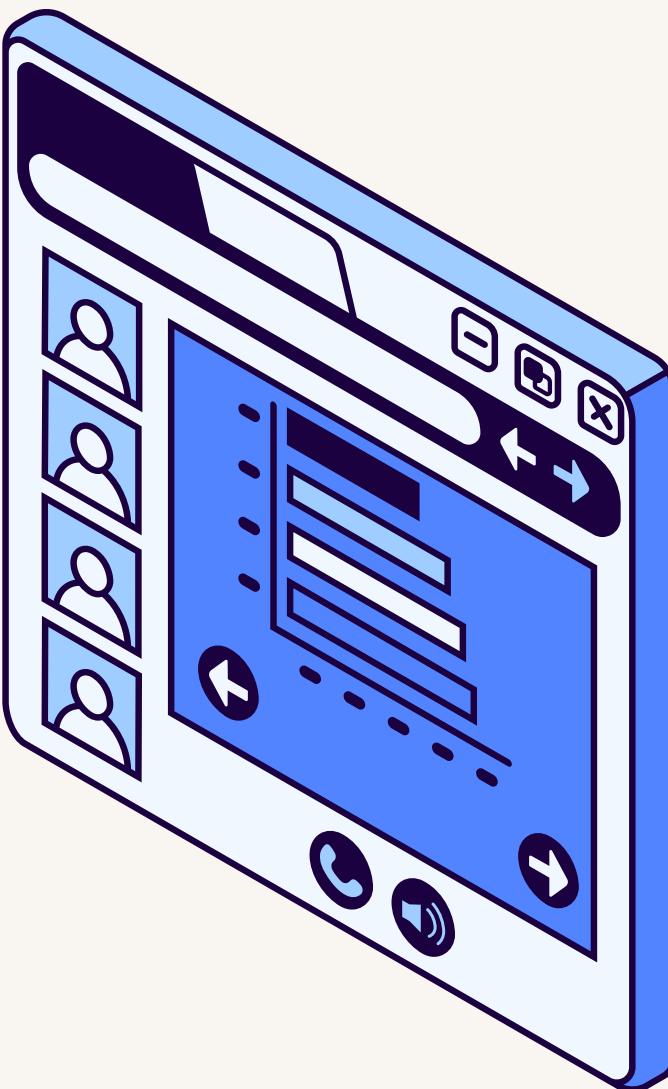


# **SOFTWARE**

## WHAT IS SOFTWARE?

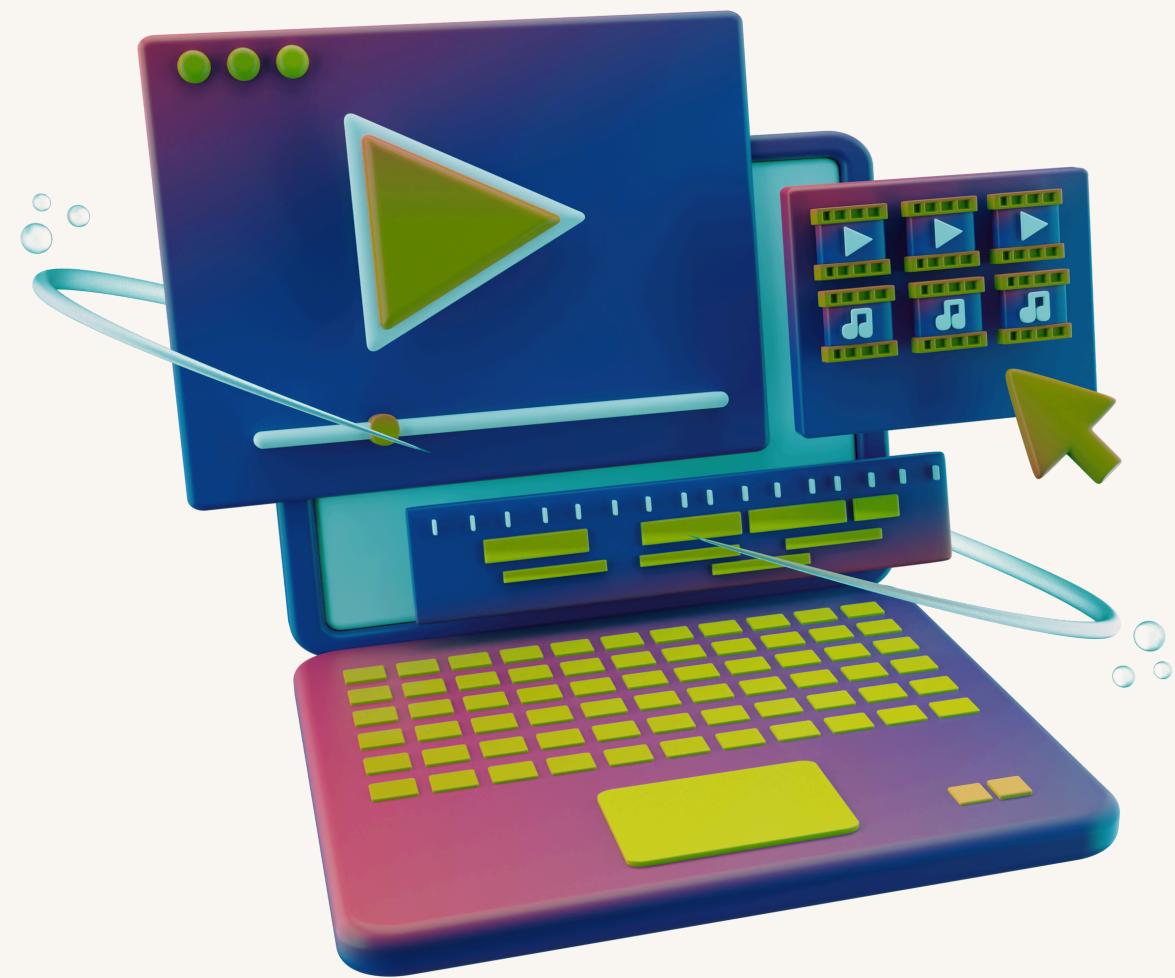
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- The term "software" refers to the programs that instruct the machinery to perform certain tasks.
- Software is intangible.
- Software is the set of instructions that facilitate hardware use and allow the application software, which solves specific user problems, to run efficiently.



## EXAMPLES OF SOFTWARE

- **Word processing Software** (Microsoft Word, Apple iWork Pages)
- **Spreadsheets Software** (Microsoft Excel, Apple iWork Numbers)
- **Presentation Software** (Microsoft PowerPoint, Apple iWork Keynote)
- **Image Editing Software** (Adobe Photoshop, Affinity Photo)
- **Video Editing Software** (Adobe Premiere Pro, DaVinci Resolve, Sony Vegas Pro)





# REFERENCES

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# THEIR IMPLEMENTATION IN THE DIFFERENT INSTITUTIONS IN THE COMMUNITY

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The integration of software and computer hardware has revolutionized various sectors, including education, government, healthcare and businesses. This section will delve into the specific implementations and their impact on these institutions.

# THEIR IMPLEMENTATION IN THE DIFFERENT INSTITUTIONS IN THE COMMUNITY



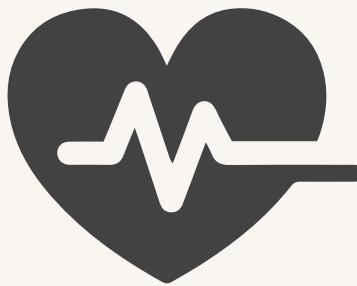
## EDUCATION

In educational institutions, information and communication technologies (ICTs) provide personalized learning, student-centered teaching techniques, and worldwide resource availability. Tools like e-learning platforms, digital whiteboards, and interactive software make learning more engaging and effective.



## GOVERNMENT

Binary is the fundamental language of computers. It uses only two symbols, 0 and 1, which correspond to off and on states in digital circuits. Every modern digital device, including computers, smartphones, and network systems, processes data in binary. Its simplicity allows for reliable data storage and transmission in digital systems, where complex tasks are broken down into binary operation.



## HEALTHCARE

Healthcare institutions increasingly rely on digital health environments that integrate electronic health records, telemedicine, and artificial intelligence to provide personalized care, enhance diagnostic accuracy, and improve decision making.



## BUSINESS

Businesses use enterprise software, data analytics, and cloud computing to streamline operations, make better decisions, and improve consumer experiences. These tools improve resource management, offer predictive insights, and enable scalability.



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# My Analysis/Reaction

- After researching about the topic and making the presentation i can say that i truly have learned a lot from what i have researched. I learned more about the concepts of hardware and how it is the physical components of a computer and how it is the physical equipment used for the input, processing, output and storage activities of a computer system. I also learned about its examples like the Central Processing Unit (CPU), GPU, Motherboard, RAM, HDD, SSD, Keyboard, Mouse, Monitor and etc. I also learned a lot about software, how it is the set of instructions that facilitate hardware use and allow the application software, which solves specific user problems, to run efficiently. I also learned about its examples like word processors like Microsoft Word, image editing apps like Photoshop, spreadsheets like Microsoft Excel, and video editors like Sony Vegas Pro and Premiere Pro. I also learned a lot about how their implementation in the different institutions in the community, namely in education, government, healthcare and businesses. I learned a lot from this portfolio and i think this will be very useful as i am an IT student.