



# Building a Budget PC!

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# Purpose!

The purpose of this presentation is to bring you a tutorial on how to Build a computer within a reasonable budget of around four hundred to six hundred dollars.

There are many types of computers that you can build, but I will be talking about one that is specifically used for gaming as this is one of my many interests when it comes to computers!

I think that gaming should be accessible for everyone so that's why I will be providing a “Budget” computer that can be affordable for mostly everyone!

# Computer Case

The first step when it comes to building a computer is to select which case you will be building your computer with, there are many different kinds of computer cases with wildly different aesthetics and sizes that can affect one's work area greatly depending on the case. Also a note for all steps please make sure your work area is clean and static free.

As we are building a budget computer I will be using the Aerocool One Eclipse which as of right now it retails for fifty dollars, in this article it is stated that they have a record of designing and manufacturing innovative designs. Ahmed, Faizan. "The Best PC Cases under \$50 in 2023."

This is a mid tower case which is good for space management and comes in carbon fiber and provides a great air flow including 3 pre installed rgb fan.

This is the easiest step when it comes to building a computer, as of right now all you have is the shell of the computer, meaning you must use the other parts to fill said case!



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# Motherboard

The Next step when it comes to building a computer is the Motherboard as this is The base of the computer and what you will be attaching most of the other parts to. The motherboard that i will be using today is the GIGABYTE B365M DS3H as this is only one hundred dollars, It may be expensive but as this is a key part of the computer it is warranted to spend a little more money in order to get greater performance the article states that this Motherboard is one of the best for the budget as it provides all the features of other high end Motherboards and has high gigabit (LAN Ahmed, Faizan. “The Best PC Cases under \$50 in 2023.”)

This is another easy step in the building process as you will just be interesting the motherboard into the empty case,you must remove the side panel of the computer case and align the screws within the case to the ones that come provided with the motherboard.all that is left to do is to screw it in with a screwdriver that may also be provided



GIGABYTE B365M DS3H @ Best Gaming Motherboards Under \$100

# CPU

The next step in building a computer is choosing a CPU this step is crucial as the CPU is the brain of the computer and will be taking most of the load when it comes to many processes. The cpu that I will be using is the AMD ryzen-5 as this is the one i use for my own computer and is one hundred dollars like the motherboard. Coming from personal experience this CPU has given me great value for what i've paid for it, i've had it for almost 3 years with no hiccups and i am able to run all games that i play at higher settings even triple a titles that are known to be CPU intensive.

The way to install a cpu is to find the cpu socket on the motherboard, once you have located the socket align the pins to the motherboard and with provide screwdriver screw the screws in and once its fit close the socket on the motherboard.



# Ram

The next step when it comes to building a computer is choosing the ram it will be using,i will be using the Corsair vengeance LPX 16 gb ram as this is also a ram that i use for my gaming computer,This ram as of right now is on sale for fifty dollars has 16gb worth as well as DDR4 technology, According to the review on Amazon it provides a high performance with a low profile.

Ram is a easy install as all you have to do is insert it into the slots that are on the motherboard,no need for screws or any cables as the slots will be obvious and a easy Fit.



# Graphics Card

The Graphics card will be the most expensive part of the computer but in my opinion the money is worth it as this is what you will mainly be using to play games so the money will make it so you can play whatever you desire. The Graphics card i will be using is the Gaming GeForce GTX 1660 with the cost of two hundred and fifty dollars. This is Another computer part that i use myself and have been using for probably the past five years now. This graphics card is honestly the best for a lower budget as i have not had to place any upgrades or replace it and i use it almost daily, I also play many triple title games that are graphics intensive and i play these games with a high frame rate at max settings.

This one is a tricky one to install as you will be needing to insert it into the slots on the said motherboard then connecting it into the ple slot and then also connecting it to the power cables.



# Power supply

The last part of the computer that you will be needing is the power supply i personally use the as well called the CP-9020054-NA this power supply is very well made and only one hundred dollars providing all the voltage you need to power your computer and all you have to do is screw it in to normally towards the bottom of your computer and then plug the motherboard and such into the sata cables from your power supply





# Conclusion

In conclusion, gaming computers don't have to be some really expensive item in order to achieve what you want with good results i have been using most of these parts for better off going on five years without any hiccups.Gaming should be accessible for everyone and hopefully this budget pc can help you attain that