

# Purchasing a Computer: Student 1

## Requirements for Adam:

- ❖ Gaming
- ❖ Ability to run server applications (Windows 7 or better)
- ❖ A lot of virtualization (Windows 7 or better)
- ❖ 24-inch monitor
- ❖ High GB of RAM
- ❖ GTX 280 video card or better
- ❖ Quad core processor or better

## Best Buy - Dell Gaming PC

<https://www.bestbuy.ca/en-ca/product/dell-gaming-pc-intel-i7-8700-1tb-hdd-128gb-ssd-8gb-ram-nvidia-geforce-gtx-1060-windows-10/12321208.aspx>



**Manufacturer:** Dell

**Make:** Inspiron Gaming Desktop

**Model:** i5680-7484BLU-PCA

**Price:** \$1,199.99 +\$156.38 HST+\$2.90 Environmental Handling Fee + Free Shipping

**Total Price:** \$1.359.27(\$500 off) \*on sale\*

## Specifications:

**CPU** - (Core i7 processor)

**Manufacturer:** Intel

**Type:** Core i7-8700

**Speed:** 3.20 Ghz

This is an extremely fast processor, Adam wanted a quad core or better, this processor has six cores. This meets, and exceeds Adam's needs in reference to cores. Gaming on this processor will be very smooth and enjoyable. Processes will occur rather quickly, allowing Adam to easily multi-task on this computer; this is another one of his requirements. This processor is great for gaming.

## Computer memory - (8GB RAM)

This should be enough memory for Adam's multi-tasking needs. Due to the relatively high amount of RAM, Adam can easily open up several applications simultaneously while using this computer. One of the things Adam needed was a lot

of RAM, with this large amount, he shouldn't experience any computer lag while running multiple applications.

### **Storage** - (1TB HDD/128gb SSD)

This desktop computer contains a very large amount of storage. Adam should have enough space to keep all the files he needs on the Hard Disk Drive. He has more than enough space for all of his assignments, programs, and games. He even has some storage on a Soft-State Drive to use, if he prefers.

### **Cards** - (NVIDIA GeForce GTX 1060)

Adam was looking for a GTX 280 video card for his gaming experience. This desktop computer will be a huge upgrade for him, he will be able to play most, if not all of his games on "Ultra" settings. The GTX 1060, has incredibly smooth visuals, and even allows for a virtual-reality experience. When he has free time, he'll be able to relax, and play games at their optimally designed graphics. This is a great way to relax after a long period of studying, and work completion.

### **Software** - (Windows 10 64-bit)

Windows 10 is the most recent version of Windows. This Operating System easily knocks off Adam's need for virtualization as well as running server applications. Windows 10 has a very friendly interface, making it easier for Adam to navigate quickly through the files on his computer. Adam will also be able to open a multitude of applications at once. Windows 10 uses API DirectX 12 which utilizes multi-thread scaling to provide the user, in this case, Adam, with immersive and realistic graphics.

### **Output Devices:**



**Monitor:** Best Buy Dell 24" 60Hz 2ms LED Monitor(not included) - Final Price: \$166.10

**Refresh Rate:** 60 Hz

**Resolution:** 1920 x 1080

Adam was looking for a 24" monitor so that he can easily view two Windows simultaneously. This monitor has that exact specification, which will allow for him to multitask between a word processor and a browser at once, allowing him to study more productively.

**Printer/Scanner:**

Staples - Printer/Scanner(not Included) - Final Price:  
\$252.49:

**Manufacturer:** Brother MFC-9130CW Digital Wireless  
Colour Laser Multifunction Printer

**Type:** 4-in-1 Wireless Desktop Colour Laser Printer

**Speed:** 19ppm

**Quality:** 600 x 2400 dpi

This printer is great for any student. Adam is a college student, he will need to hand in, scan, and fax assignments. This 4-in-1 printer will save him the time needed to print a paper on campus, helping him meet deadlines. With its wireless nature, he doesn't have to bother with extra wires lying around his desktop.

**Input Devices:**

**Dell Keyboard + Mouse:**(Included with computer)

A mouse and keyboard are needed for navigating around the computer, executing commands, typing, and basic use of the computer. Adam would definitely require these to use the computer. The mouse and keyboard are also made for gaming, they were made with ergonomics in mind. Adam should find it easy to play the games he wishes.

**Conclusion:**

I chose this computer system because it meets and in most ways exceeds what Adam requires. He had many specific requirements, and I recognized he would need something that would last for a while, and therefore, I provided him with the power and speed he needs for gaming, virtualization, and running server applications. This desktop computer will last him at least 8 years, so it's well worth the investment. Adam being a college student, should be able to afford this desktop computer through grants and scholarships or even part-time work. Also, it is currently \$500 off which is a great saving. I chose a monitor that specifically tailored to his request of a 24" monitor for the ease of multitasking while researching and studying. I didn't include an expensive monitor, as I know that he's not going to need 4k resolution, it's not worth the difference in price. Furthermore, I chose the printer because it had four functions in one, and with Adam being a student, he would need it for printing, scanning, faxing, and copying papers. In conclusion, I chose the desktop computer system, as it is well worth the price, and fits Adam's requirements.

## Purchasing a Computer: Student 2

### Requirements for Brittany:

- ❖ Regular use (social network sites)
- ❖ Lots of downloads (music)
- ❖ School work
- ❖ Watch movies and TV shows

### Best Buy - Hewlett-Packard Pavilion Desktop PC

<https://www.bestbuy.ca/en-ca/product/hp-pavilion-desktop-pc-ash-silver-amd-a10-9700-2tb-hdd-8gb-ram-windows-10-english/12387270.aspx>



**Manufacturer:** Hewlett-Packard

**Make:** HP Pavilion Desktop

**Model:** 590-p0069

**Price:** \$499.99+ \$2.90 Environmental Fee+ \$65.38 HST

**Total Price:** \$568.27(\$200 off) \*on sale\*

**CPU -** (7th Gen AMD processor)

**Manufacturer:** AMD

**Type:** AMD A10-9700

**Speed:** 3.50 Ghz

This is a rather fast processor, it has 4 cores, and will allow for multi-tasking. The processor graphics will be high definition. This will be rather enjoyable for when Brittany decides to watch a movie or a TV show. A CPU is necessary for the computer to work, thus it is a necessary specification in any personal computer.

**Computer memory:** (8GB RAM)

Although Brittany might not need this much RAM, it's better to have too much RAM than to have too little. Thanks to the amount of memory on this computer, Brittany will be able to easily chat with her friends and even watch a movie at the same time.

**Storage:** (2TB HDD)

Brittany needs a lot of space for all the music she downloads. She's also a student, so having space to store her files is necessary. 2TB is a large amount, she shouldn't have any issues in regards to storage, and can download all the music she

wishes. This will be enough storage for all of her assignments and programs related to her schoolwork.

**Cards:** (5.1 Surround Sound, AMD Radeon R7 Graphics)

The sound card allows for Brittany to enjoy a higher quality of integrated audio. Accompanied by a nice pair of headphones, she will have a rather pleasant experience while listening to music, or watching movies; which are the main uses of her computer. Brittany isn't a huge computer user, so she won't be using her graphics card for gaming, the graphics card will allow Brittany to see a noticeably better 3D resolution while using her computer for entertainment.

**Software:** (Windows 10 Home)

Windows 10 is the newest version of Windows. It is always important to ensure that you have the newest version of a software, that way you can ensure that you have the best version, as software is constantly being fixed and improved. This desktop computer comes with a few software programs, they include some programs that Brittany would be interested in. For example, Netflix, this is a program in which you can watch TV shows and movies. The computer also comes with Cyberlink Power Media Player, Brittany can use this program to open .mp3 files and listen to the music she downloads.

**Output Devices:**



**Monitor:** Best Buy Dell 24" 60Hz 2ms LED Monitor(not included) - Final Price: \$166.10

**Refresh Rate:** 60 Hz

**Resolution:** 1920 x 1080

Brittany needs a monitor to be able to use her computer. This monitor is affordable, and has HD resolution. The resolution is especially useful for when she wishes to watch TV shows and movies. The monitor is rather large, at 24", allowing Brittany to also view her monitor from a distance.



**Printer/Scanner:** Staples - Printer/Scanner(not Included) - Final Price: \$252.49:

**Manufacturer:** Brother

**Type:** MFC-9130CW Digital Wireless Colour Laser Multifunction 4-in-1 Wireless Desktop Colour Laser Printer

**Speed:** 19ppm

**Quality:** 600 x 2400 dpi

This is the perfect printer for any student. Brittany is in grade 12, she requires a printer for her school work. This

printer is able to fax, scan, copy, and print. It has a high paper per minute rate, allowing her to print large assignments in a shorter time compared to other printers. It is on the more expensive side, but is well worth the investment, as Brittany will be entering college/university in the near future.



**Headphones:** Best Buy - Sony Wireless Headphones MDRRF995RK - Final Price: \$112.99

These high-quality headphones will enable Brittany to experience music in an excellent manner. These wireless headphones with a 150ft range, which will allow Brittany to move around her home, and still be connected to the music on her computer. Since music is one of the main uses of the computer, high quality headphones are necessary for this computer system.

### **Input Devices:**

Dell Wireless Keyboard + Mouse(Included with computer)

Needed for navigating around the computer, executing commands, typing, and basic use of the computer. Without these input devices Brittany would not be able to use her computer. As the keyboard and mouse are wireless, she would not need to worry about having many wires around her work station.

### **Conclusion:**

I chose this computer system because it's simple and meets Brittany's needs. Brittany didn't need anything too fancy, or expensive. This computer gets the job done, while providing a lot of space for all the music that Brittany would want to download. I included headphones in this computer system as I knew that they are a necessary device when it comes to listening to music. I chose the 1920x1080 monitor for Brittany due to the fact that she uses her computer to watch TV shows and movies. For her to have a pleasant experience while viewing her favourite shows, high quality is a must. In conclusion, Brittany's system is rather affordable, gets the job done, accommodates her hobby of listening to music, allows her to use communications software, and to complete school work.

## Works Cited

“Dell Gaming PC (Intel i7-8700/1TB HDD/128GB SSD/8GB RAM/NVIDIA GeForce GTX 1060/Windows 10).” Best Buy Canada - Best Buy Canada, 20 Aug. 2018, [www.bestbuy.ca/en-ca/product/dell-gaming-pc-intel-i7-8700-1tb-hdd-128gb-ssd-8gb-ram-nvidia-geforce-gtx-1060-windows-10/12321208.aspx](http://www.bestbuy.ca/en-ca/product/dell-gaming-pc-intel-i7-8700-1tb-hdd-128gb-ssd-8gb-ram-nvidia-geforce-gtx-1060-windows-10/12321208.aspx)

“HP Pavilion Desktop PC - Ash Silver (AMD A10-9700 / 2TB HDD / 8GB RAM / Windows 10) - English.” Best Buy Canada - Best Buy Canada, 29 June 2018, [www.bestbuy.ca/en-ca/product/hp-pavilion-desktop-pc-ash-silver-amd-a10-9700-2tb-hdd-8gb-ram-windows-10-english/12387270.aspx](http://www.bestbuy.ca/en-ca/product/hp-pavilion-desktop-pc-ash-silver-amd-a10-9700-2tb-hdd-8gb-ram-windows-10-english/12387270.aspx)

“Dell 24' 60Hz 2ms LED Monitor (SE2417HGR) - Black.” Best Buy Canada - Best Buy Canada, 12 July 2018, [www.bestbuy.ca/en-ca/product/dell-dell-24-60hz-2ms-led-monitor-se2417hgr-black-se2417hgr/10423607.aspx](http://www.bestbuy.ca/en-ca/product/dell-dell-24-60hz-2ms-led-monitor-se2417hgr-black-se2417hgr/10423607.aspx)

“Brother MFC-9130CW Digital Wireless Colour Laser Multifunction Printer (MFC9130CW) | Staples.” Staples.ca, [www.staples.ca/en/Brother-MFC-9130CW-Digital-Wireless-Colour-Laser-Multifunction-Printer-MFC9130CW/product\\_154689\\_1-CA\\_1\\_20001](http://www.staples.ca/en/Brother-MFC-9130CW-Digital-Wireless-Colour-Laser-Multifunction-Printer-MFC9130CW/product_154689_1-CA_1_20001).

“Sony On-Ear Wireless Headphones (MDRRF995RK) - Black.” Best Buy Canada - Best Buy Canada, 26 Feb. 2018, [www.bestbuy.ca/en-ca/product/sony-sony-on-ear-wireless-headphones-mdrrf995rk-black-mdrrf995rk/10585781.aspx](http://www.bestbuy.ca/en-ca/product/sony-sony-on-ear-wireless-headphones-mdrrf995rk-black-mdrrf995rk/10585781.aspx).