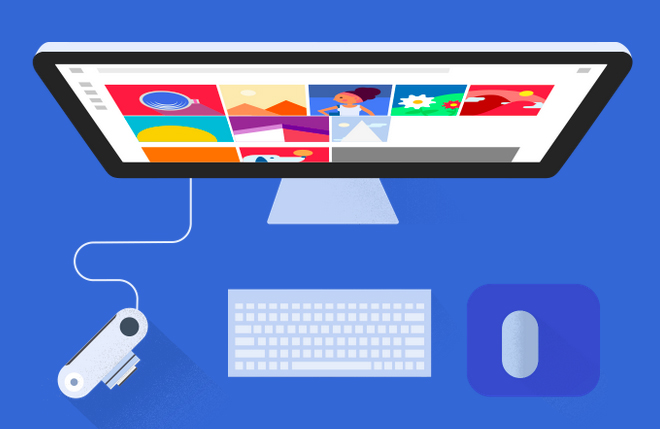
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Build a Computer Report



1. CPU: Intel – Core i5-7500 3.4 GHz Quad-Core Processor

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| This processor has 4 cores with 4 threads which allows the processor to run smoothly resulting in great performance. | The processor is only compatible with Windows 10. |
| The processor has operating frequency of 3.4 GHz. The processor can maximize its turbo frequency up to 3.80 GHz. | No simultaneous multithreading. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Comes with a cooling device with (Heatsink and fan included) which can save money. | A bit pricey but given the budget, it is the best processor for everyday use. |

* I chose this processor because it has an intelligent performance and optimization for everyday use.

1. CPU COOLER: Cooler Master - Hyper 212 EVO 82.9 CFM Sleeve Bearing CPU Cooler

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Easy to install and nice design. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Very cheap considering it provides a very good performance and keeps the computer cool. | None. |

* I chose this product because it is the #1 best seller in Computer CPU cooling fans. It is one of the best processor fans for Intel and AMD. It has the best cooling performance with 120 mm PWM fan optimization to provide cool CPU experience and heat control.

1. THERMAL COMPOUND: Arctic Silver - 5 High-Density Polysynthetic Silver 3.5g Thermal Paste

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Best paste for CPU cooling installation. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Very cheap. | None. |

* I chose this product because it is one of the essential tools to keep the processor cool and it makes sure the processor is safe. It has a unique feature with high-density filling of micronized silver and enhanced thermally conductive ceramic particles, providing a new level of performance and stability.

1. MOTHERBOARD: Asus - PRIME Z270-A ATX LGA1151 Motherboard

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Easy to install. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Relatively cheap compared to other high cost motherboards. | None. |

* I chose this product because it has a 5-way optimization and has a connection with extraordinary speeds.

1. MEMORY: Corsair - Vengeance LPX 16GB (2 x 8GB) DDR4-3000 Memory

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Has high-performance overclocking. | No ECC. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Good performance for the price. | Expensive. |

* I chose this product because it is the #1 seller in computer memory. It is designed for high-performance overclocking, it has great performance and compatibility and it is available in a pack of two.

1. STORAGE: Samsung – 850 EVO-Series 500GB 2.5” Solid State Drive

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Fast and compact | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Great product for the price. $0.36/GB | Very expensive. |

* I chose this product because it is #1 seller in SSD's. It has 3D V-NAND technology to overcome the limitations of the planar NAND architecture, and it has Turbo-Write technology to maximize computing ability.

1. STORAGE: Western Digital – Caviar Blue 1 TB 3.5” 7200RPM Internal Hard Drive

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Lots of storage space. Easy to install and reliable. | Has low demand now that SSD are more powerful. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Cheap and efficient. $0.048/GB | None. |

* I chose this product because it has 7200 RPM and has 1TB capacity.

1. VIDEO CARD: EVGA – GeForce GTX 1050 Ti 4GB ACX 2.0 Video Card

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Boosts the gaming performance. 4GB RAM enables users to stream high-quality videos. | Doesn’t have SLI and CROSSFIRE support. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Cost effective and high performance. | Expensive. |

* I chose this product because it will be useful in watching high definition videos.

1. CASE: Corsair – 750D ATX Full Tower Case

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Great design with lots of space and good airflow. | Does not include power supply. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Reasonable price for great case. | None. |

* I chose the case because I like the case, it has sleek design with see-through side where you can see the components inside the case.

1. POWER SUPPLY: EVGA – SuperNOVA 1000 P2 1000W 80 + Platinum Certified Fully-Modular ATX Power Supply

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Includes Eco thermal fan system which reduces noise during load operations. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Reasonable price. | None. |

* I chose this product because it has ECO Thermal Control Fan system for silent operations at low loads. It provides up to 83.3A on a single rail for maximum power and efficiency.

1. OPTICAL DRIVE: Asus – DRW-24B1ST/BLK/B/AS DVD/CD Writer

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| E-Green engine technology to help conserve energy. | Produces loud noises during start up. |
| Has optimal Tuning Strategy (OTS). |  |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Affordable and cheap. | None. |

* I chose this product because it is capable of reading and writing data on almost all disc formats.

1. OPERATING SYSTEM: Microsoft – Windows 10 Home OEM 64-bit

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Faster than Windows 8. | Lot of frequent updates with minimal changes. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Reasonable price for performing daily tasks. | None. |

* I chose this product because I like Windows 10 operating system.

1. SOFTWARE: Microsoft – Office Home and Student 2016 Software

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Fast, reliable, simple interface with many features. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| None, | Expensive for students. |

* I chose this product because it is one of the basic software needed for a student.

1. SOFTWARE: McAfee – Internet Security 2016 (1 Year Subscription) Software

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Protects the system from virus threats and malware. | Free only for 1 year. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Affordable and inexpensive. | None. |

* I chose this product because it is the basic software to protect a desktop from viruses, phishing and spam.

1. SOUND CARD: Asus – Xonar DGX 24-bit 96 KHz Sound Card

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Built-in headphone amp which provides superior sound quality. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Affordable price. | None. |

* I chose this product because it provides the best sound quality for listening to music or for watching videos.

1. WIRED NETWORK ADAPTOR: Intel – EXPI9301CTBLK PCI-Express x1 10/100/1000 Mbps Network Adaptor

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Easy installation. | None. |
| High performance and reliability which reduces CPU usage. |  |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Inexpensive. | None. |

* I chose this product because it uses auto-negotiation which helps to run at high network speeds while maintaining full bandwidth capacity.

1. WIRELESS NETWORK ADAPTOR: Gigabyte – GC-WB867D-I PCI-Express x1 802.11a/b/g/n/ac Wi-Fi Adapter

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Provides fast Wi-Fi speed (up to 867 Mbps) | None. |
| Supports Bluetooth 4.0 and IEEE 802.11ac standards. |  |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Inexpensive. | None. |

* I chose this product because it is the #1 seller. It has 802.11a/b/g/n/ac Network Standards, 802.11d/e/i/h/w Standards, Bluetooth V 4.0 / 3.0 / 2.1 and has high speed wireless connection up to 867 Mbps.

1. CASE FAN: Corsair – Air Series AF 120 Quiet Edition (2-Pack) 39.9 CFM 120mm Fans

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Hydraulic bearing which enables quite airflow operation with low noise levels. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Inexpensive. | None. |

* I chose the product because it has the quite hydraulic bearing which keeps the noise down and increase the air flow with dual 120 mm case fans.

1. FAN CONTROLLER: NZXT – Sentry Mix 2 Fan Controller

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Has 6 channels to provide better airflow. | None. |
| Integrated LED lighting with RGB colors to choose from. |  |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Inexpensive. | None. |

* I chose this product because it has cool LED lighting at the front displaying the 6 channels of airflow.

1. MONITOR: Acer – GN246HL 24.0” 1920x1080 144Hz Monitor

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| 24” widescreen with 1920x1080 resolution. | No built-in speakers. |
| Response time: 1 ms and Refresh rate: 144 Hz. | No IPS. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Very cheap for users who are under budget. | None. |

* I chose this product because it is a top seller. It has TN technology with 1920 x 1080 full HD resolution. It has 1 ms response time and 144 Hz refresh rate.

1. KEYBOARD: Logitech – Wireless Combo MK270 Wireless Standard Keyboard w/Optical Mouse

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Wireless. | Not backlit. |
| Includes mouse. | Not mechanical. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Great price for both the keyboard and mouse. | None. |

* I chose this product because it the #1 seller in computer keyboards & mouse combos. It has simple design with wireless keyboard and a wireless mouse.

1. SPEAKERS: Logitech – Z323 30W 2.1ch Speakers

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| *TECHNICAL PERSPECTIVE* | |
| *PROS* | *CONS* |
| Provides 360 degree sounds. | None. |

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| *COST VS BENEFIT PERSPECTIVE* | |
| *PROS* | *CONS* |
| Cost effective and is available for cheap price. | None. |

* I chose this product because I like to listen to music in high volumes. With its 360 degree sound system, it projects sounds in all directions.

APPENDIX

