Assignment 1 – PC Research

Student: Jared Fowler

**Task:**

Select components from www.newegg.com to build a custom PC. Budget=$1,000.

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| **Hardware/Model** | **Specs** | **Link** | **Price** | **Notes** |
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| Case –  DIYPC Skyline-06-WG | ATX  Full Tower  X5 120mm fans  Hot Swap Docking  USB 3.0 | https://www.newegg.com/Product/Product.aspx?Item=N82E16811353102 | 79.98 | ATX Full Tower  Large fans  Space for expansion |
| Power Supply –  EVGA SuperNOVA | ATX  750W | https://www.newegg.com/Product/Product.aspx?Item=N82E16817438017&cm\_re=atx\_power\_supply-\_-17-438-017-\_-Product | Sale: 90.00  Normal: 129.99 | 750W provides plenty of power with room for future expansion |
| Mother Board – ATX  ASUS ROG STRIX B450-F | ATX  AM4 AMD  SATA 6Gb/s  USB 3.1  Integrated Sound | https://www.newegg.com/Product/Product.aspx?Item=N82E16813119140 | Sale: 127.00  Normal: 129.99 | While the case only supports USB 3.0, the MB provides direct USB 3.1 hookups and 3.1 is backwards compatible with 3.0. |
| CPU –  AMD RYZEN 5 2600X | 6-Core 3.4 GHz (3.9 GHz Max Boost)  65W  12 Threads  DDR4 Support  2nd GEN | https://www.newegg.com/Product/Product.aspx?Item=N82E16819113496&cm\_re=amd\_ryzen\_5-\_-19-113-496-\_-Product | 169.99 | Comes with AMD wraith stealth cooler. Generally, you can get more bang-for-buck with AMD than Intel. |
| Main Memory (RAM) –  CORSAIR Vengeance LPX 16GB (2 x 8GB) | DDR4 3000  Timing 15-17-17-35  CAS Latency 15 | https://www.newegg.com/Product/Product.aspx?Item=N82E16820233852 | 169.99 | MB requires DDR4. 16GB is PLENTY for most applications and games. DDR4 3000 compatible with MB |
| Graphics Card –  CORN NVIDIA GeForce GTX750Ti | 2GB 128-Bit DDR5  X1 DVI-D, X1 HDMI, X1 VGA  PCI Express 3.0 x16 | https://www.newegg.com/Product/Product.aspx?Item=9SIA4RE7717516&cm\_re=graphics-\_-1FT-0040-00007-\_-Product | Sale: 94.99  Normal: 149.99 | Not the best graphics, but certainly much better than on-board graphics. Preferred tier would cost around $500. |
| Hard Drive (Primary) –  WD Blue 3D | 250GB SSD  2.5”  SATA III | https://www.newegg.com/Product/Product.aspx?Item=N82E16820250086&cm\_re=hdd\_250gb-\_-20-250-086-\_-Product | Sale: 69.99  Normal: 79.99 | Use as main boot drive. Plenty of space for additional applications. SSD eliminates HDD mechanical bottleneck. |
| Hard Drive (Storage) –  WD Blue 4TB | 4TB HDD  5400 RPM  SATA 6Gb/s  64MB Cache  3.5” | https://www.newegg.com/Product/Product.aspx?Item=N82E16822235011&ignorebbr=1 | Sale: 100.99  Normal: 169.99 | Use as storage drive. HDDs are slower but much cheaper than SSDs. |
| Optical Drive –  LG Internal 24x Super Multi | 24x DVD+R  48x CD-R  SATA | https://www.newegg.com/Product/Product.aspx?Item=N82E16827136276 | 17.99 | Good to have at least one of these… |

Subtotal: $920.91

Tax: $66.77

Shipping: $7.74

Total: **$995.42**