# IT 200 System Specifications Template

Client: I chose the Family as my client

System Components:

| **Component** | **Price** | **Rationale (Include a source URL or citation.)** |
| --- | --- | --- |
| LENOVO IDEA 888010120 Lenovo M0520 Speaker | $10.19 | <https://www.newegg.com/lenovo-m0520/p/N82E16836146004?Item=9SIAHRCB9N5681>   * Cost Efficient * Small and Durable * Provides adequate sound * 1yr Warranty Included |
| Dell Professional P1913 19" Widescreen 1440x900 16:10 LED LCD Monitor DP DVI VGA Grade B | $49.99 | <https://www.newegg.com/dell-19-wxga/p/0JC-0004-00626?Item=9SIAAJ25TB7936>   * Include USB connection * Screen size is adequate for a family (19’) * Cost Efficient * Good Max Resolution (1440 X 900) |
| Pixma Mg3620 Wireless All-In-One Photo Inkjet Printer, Copy/print/scan | $66.58 | <https://www.newegg.com/canon-pixma-mg3620-black-inkjet/p/N82E16828143213?Item=9SIA4P0GP81157>   * Printer is on Sale * Robust functionality (can scan, print and copy) * Compatible with a plethora of color/black print cartridges |
| Perixx PERIDUO-714, Wireless Standard Keyboard and Mouse Combo Set, Black | $19.99 | <https://www.newegg.com/perixx-pd-714bus-11668/p/0GA-0038-001R1?Item=9SIA2J2BM74994>   * Dual/Combo Set * Cost Efficient * Wireless: Simple plug and play wifi installation * Compatible with chosen OS |
| Microsoft Windows 10 Home - Full Retail Version 32 & 64-Bit (Download) | $129.99 | <https://www.newegg.com/microsoft-windows-10-home-full-version-32-64-bit/p/N82E16832588506?Item=N82E16832588506>   * Cost efficient * Includes Microsoft Office Apps * Include Microsoft Outlook (which is a user-friendly email system. Can be used simply by any age group) * Include Microsoft Edge Internet Browser and the capability of downloading Google Chrome (compatible with over 90% of websites) which is preferred. * Includes Auto System Updates * Includes Antivirus Software |
| SAMA Sama-Z3 Black Steel / Tempered Glass ATX Mid Tower Computer Case | $45.99 | <https://www.newegg.com/p/N82E16811197006R?Item=N82E16811197006R>   * Cost efficient: Computer Case was on sale * Durable Material: Steel and Tempered Glass, sturdy enough for a family of all ages * Advanced Cable Management design |
| Yeston GeForce GT 730 4GB DDR3 Graphics cards Nvidia PCI Express 2.0 Desktop computer PC DVI-D +VGA+ HDMI-compatible video gaming graphics card | $89.00 | <https://www.newegg.com/yeston-geforce-gt-1030-gt1030-4gd4-ta/p/1FT-007N-00034?Item=9SIAZUEFD27444>   * Compatible with OS * 4G of Video Memory Capacity * Provides multi Output formats (DVI, HDMI, VGA) |
| Raidmax Vortex Power RX-535AP-V 80 Plus Bronze 535W ATX/12V EPS/12V Power Supply | $49.99 | <https://www.newegg.com/raidmax-vortex-rx-535ap-v-535w/p/1HU-0061-000A5?Item=9SIA9ZNB554698>   * Energy Efficient : 80 Plus Bronze Certified * Good max power watts (535 W) * Semi-Modular |
| Thermaltake TOUGHAIR 310 170W TDP CPU Cooler, Intel/AMD Universal Socket (LGA 1200/1700), 120mm 2000RPM High Static Pressure PWM Fan with High Performance Copper Heat Pipes LGA 1700 Ready | $39.99 | <https://www.newegg.com/thermaltake-cl-p074-al12bl-a/p/N82E16835106667?Item=9SIA8EFESE6480>   * High static pressure fan (maintains a leveled temperature. Computer will not overheat if left on) * Offers universal compatibility (i.e. works with Intel and AMD sockets) |
| OLOy OWL 16GB (2 x 8GB) 288-Pin PC RAM DDR4 3200 (PC4 25600) Desktop Memory Model MD4U083216BJDA | $46.99 | <https://www.newegg.com/oloy-16gb-288-pin-ddr4-sdram/p/N82E16820821248?Item=N82E16820821248>   * Durable: Premium Quality Chips * Ultra fast DDR4 speeds (seamlessly communicates with intel/AMD processors) |
| Team Group T-FORCE VULCAN Z 2.5" 480GB SATA III 3D NAND Internal Solid State Drive (SSD) T253TZ480G0C101 | $24.99 | <https://www.newegg.com/team-group-480gb-t-force-vulcan-z/p/N82E16820331832?Item=N82E16820331832>   * Vibration Resistant (will not damage easily if someone accidently knocks into the computer) * Quiet (reduced noise interference) * Compatible with OS |
| AMD Ryzen 5 5500 - Ryzen 5 5000 Series 6-Core Socket AM4 65W None Desktop Processor - 100-100000457BOX | $98.98 | <https://www.newegg.com/amd-ryzen-5-5500-ryzen-5-5000-series/p/N82E16819113737?Item=N82E16819113737>   * Highly ranked in Desktop processors (#24) * Provides 64 Bit Support (can handle large increments of info, can have multiple programs opened at once) |
| GIGABYTE B550M DS3H AM4 AMD B550 Micro-ATX Motherboard with Dual M.2, SATA 6Gb/s, USB 3.2 Gen 1, PCIe 4.0 | $99.99 | <https://www.newegg.com/gigabyte-b550m-ds3h/p/N82E16813145210?Item=N82E16813145210>   * Rear HDMI/DVI * Smart Fan * High Quality Audio capabilities |
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Design Summary:

For my client (the family), I felt that a keyboard and mouse would be essential input devices. Further, I felt that a printer, monitor, and speaker would be essential output devices. Since the computer system will most likely not be utilized for design and/or gaming programs, I felt that my client could utilize a standard processor, and a standard memory storage device.

The budget for the design was the primary focus of the selections I made. I kept in mind that my client was a family, on a budget, and in need of a full suite of system components. I selected the printer, monitor, mouse/keyboard, and Windows Operating System because of the potential need for the accessories. Families that include members of different age groups would need all of the above system accessories for unique reasons. I chose the most cost-efficient accessories available while ensuring that the product/s qualities and the product/s versatilities were not ignored.

Additionally, I selected the processor because of its graphics capabilities, and the ability to handle large increments of information. The motherboard and remaining hardware components chosen were selected because of the overall usability of the hardware components. Specifically, they were selected because the hardware components are feasible and include high audio, video, graphic, and storage capabilities. Overall, the accessories and hardware components selected to provide my client with an adequate computer.