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SYS-140: System Fundamentals

Lab 7: PC Purchase

## System Quote

### Paragraph stating the purpose of your machine (i.e., what will it be used for?)

The purpose of my machine will be used for work. The main focus is for the allowed money will be on the CPU and the RAM, as those are the most important parts of making a PC that is suitable for work and every day office tasks.

### Quote

| Part        | Quantity | Price | Citation/URL  | How does it fit the purpose of your machine?  |
|-------------|----------|-------|---|---|
| CPU         | 1        | \$297 | <a href="https://www.amazon.com/AMD-Ryzen-3600-12-Thread-Processor/dp/B07STGGQ18/">https://www.amazon.com/AMD-Ryzen-3600-12-Thread-Processor/dp/B07STGGQ18/</a>                       | A fairly strong CPU is important for the scheduling of programs and tasks, as well as carrying out the different operations.          |
| Motherboard | 1        | \$210 | <a href="https://www.amazon.com/GIGABYTE-ALC1220-VB-Fusion-Gaming-Motherboard/dp/B089FT8JLW/">https://www.amazon.com/GIGABYTE-ALC1220-VB-Fusion-Gaming-Motherboard/dp/B089FT8JLW/</a> | The motherboard is the foundation of the computer, making sure all of the separate components can communicate quickly and efficiently |
| RAM         | 2        | \$55  | <a href="https://www.amazon.com/OLOy-288-Pin-Desktop-Gaming-MD4U083016BJDA/dp/B083NPX9TJ/">https://www.amazon.com/OLOy-288-Pin-Desktop-Gaming-MD4U083016BJDA/dp/B083NPX9TJ/</a>       | RAM in a workstation is mainly necessary to have many tabs open at once in the web browser  |

|      |   |       |  |  |
|------|---|-------|--|--|
| SSD  | 1 | \$135 | <a href="https://www.amazon.com/SAMSUNG-Inch-Internal-MZ-77E1T0B-AM/dp/B08QBJ2YMG/">https://<br/>www.amazon.com/<br/>SAMSUNG-Inch-<br/>Internal-MZ-77E1T0B-<br/>AM/dp/<br/>B08QBJ2YMG/</a>                               | I chose SSD over HDD due to the fact that most workstations involve web-based applications, so storage is not as important of a concern as the fast launching of applications. |
| CASE | 1 | \$50  | <a href="https://www.amazon.com/Zalman-Computer-Pre-Installed-Acrylic-Patterned/dp/B084H9CSWR/">https://<br/>www.amazon.com/<br/>Zalman-Computer-<br/>Pre-Installed-Acrylic-<br/>Patterned/dp/<br/>B084H9CSWR/</a>       | I chose this case because it was well-reviewed, big enough, and already had cooling fans installed.  |
| PSU  | 1 | \$55  | <a href="https://www.amazon.com/MasterWatt-Semifanless-Modular-Certified-Computers/dp/B074ZKXM72/">https://<br/>www.amazon.com/<br/>MasterWatt-<br/>Semifanless-Modular-<br/>Certified-Computers/<br/>dp/B074ZKXM72/</a> | I chose this power supply because it will be sufficient for the system, while also being reliable and relatively cheap.  |