**Course Project Scenario:**

You are a mid-level Computer Science employee working for InterWorkings, an Information Technology company. Your company has just acquired GetGoing, a company with lots of potential, but unfortunately suffered from poor management and funding concerns. Although your company has made the decision to lay off upper management from GetGoing, they are bringing over 10 top employees whom InterWorkings feels are the best and brightest among the GetGoing organization. InterWorkings wants these employees to feel ‘at home’ from day one in order to successfully retain them.

Although, not normally your area of expertise, the CEO of InterWorkings, Mr. Dale Minning, has ask you personally to assist the Administrative Assistant in purchasing the needed computers hardware, software and peripherals for the 10 new employees. You are the technical expert here! You are to assume that the AA does not know anything about the technical hardware or software needed and is purely able to assist with paperwork in hiring the employees and Invoicing of the material.

Ideally, and to make the former GetGoing employees feel welcome, all computers, needed peripherals, and software should be purchased and installed prior to their first day of working at InterWorkings, which is expected to occur within the next 6 weeks.

The CEO expects weekly progress reports on how things are progressing. As part of your reporting back to the CEO on your progress, you need to develop a time line of when the events will occur that will allow all items to be selected, approved, purchased, and configured within the 6 weeks allotted.

After your meeting with CEO Mr. Minning, your boss, Ms. Becky Meadows, approaches you and states that Mr. Minning must want these employees to be happy with their new work environment, because these purchase requests have no dollar limits. The new employees will report directly to Mr. Minning and their office space will be in the newly redesigned conference center immediately across from Mr. Minning’s Office.

Then Ms. Meadows adds, by the way, don’t worry about any network connectivity items such as a router, switch or hub, as the Network folks will be working on that. But you do need to ensure that the computers are capable of both WiFi and 10G Ethernet connectivity. One last thing, make sure each employee also has a UPS System capable of maintaining the desktop/workstation fully operations for up to 30 minutes in case of power failure.

Her final remarks are to do a fantastic job on this task and to make yourself, her and the CEO proud, because, as she hinted, “Remember that you are up for that promotion.”

As you start to plan how you will accomplish this task, you remember that the website <https://pcpartpicker.com> may be useful. You also think that these desktop/workstations may need additional USB drives to support all the USB peripherals. You make a note to research these, since some have been known not to work well, especially those that are not powered. You also know you need to ensure they are 3.0 USB drives at a minimum.

All 10 employees need large storage solutions (both internal and external), optical drives, web-conferencing capability (webcam), headphones, speakers, UPS Systems, email, MS Office, Internet and the ability to open PDF files.

The 10 employees fall into the follow categories:

Three high-end programmers, whom will need the latest in computer hardware and programming software available. Their current skill set include Java, Python, Ruby and Swift, but should have the ability to install and use any high-end programming language. Their favorite color is blue.

Three high-level AutoCad engineering designers, whom will need the latest computer hardware and programming software available. Autocad designers will need touch screen monitors, as well as drawing pads. They also need several of the products in the Adobe Creative Cloud, so they will need a subscription. Their favorite color is red.

Three marketing specialists whom create and edit 4k video for the company’s products. They will need video editing hardware, as well as software. Their favorite color is orange.

One mid-level manager whom will review and approve all work submitted by the other 9 employees. This work station must be equipped with the ability to perform, review or monitor work from the programmers, engineer designers and marketing specialists.

Your tasks include:

1. Each employee is to receive a desktop/work station with quad-monitor configuration. Laptops are not acceptable for these positions.
2. Determine the computer needed for each of the employees, down to the exact components (both hardware and software). Each computer is to be custom built, but more than one computer can be configured the same. No already designed computers should be considered.

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| Course Project (Part 1) | 5% |
| Course Project (Part 2) | 10% |
| Course Project (Part 3) | 10% |
| Course Project Presentation | 5% |

### Evaluation

As stated in class syllabus, the research project counts for 30% of the course grade. The primary grading criteria will be the depth, accuracy, clarity, completeness of the technical material, critical analysis, and convincing evidence of your own mastery of the knowledge of the items required for the project paper, as well as the project presentation.

**Your course project includes four components: 5 deliverables to the course project and 1 presentation.**

1. Course Project (Part 1): 5% - Due in Blackboard PRIOR to Sunday, Feb 11 at 11:59PM.

Deliverable: Completed Course Project Part 1 file

1. Course Project (Part 2): 10% - Due in Blackboard PRIOR to Sunday, Mar 11 at 11:59PM.

Deliverable: Completed Course Project Part 3 file

Deliverable: Excel Spreadsheet CSCIU310\_CourseProject\_PartsList file

1. Course Project (Part 3): 10% - Due in Blackboard PRIOR to Sunday, April 15 at 11:59PM.

Deliverable: Completed Course Project Part 3 file

Deliverable: Excel Spreadsheet CSCIU310\_CourseProject\_PartsList file

1. Course Project Presentation: 5% - Presentations conducted April 23rd – April 30th in class!

Deliverable: PowerPoint Presentation file, plus any handouts

Presentation conducted in class

### Additional Research Paper Considerations:

* If you cannot locate enough material on the individual areas of the project, then you need to perform more research.
* Quoted material shall not comprise more than 10% of total research paper content length.
* Quoted or paraphrased material must be properly cited both in-text and in the reference page(s).
* Project papers created for another course or in the previous taking of this course will not be accepted. Please do not submit work from another course or previous taking of this course! Instead take the time to learn something new.
* Plagiarism will result in an automatic 0 (zero) for this assignment. Do not copy/paste material for this report, nor locate material from another source.

### Group and individual submissions are allowed for this research project.

Group restrictions include:

* No more than 4 members in a group.
* All members must actively work to complete the research project report.
* Don’t let a group member sit by while you do all the work and certainly don’t let your grade rely upon the other group members doing the work.
* All members must speak during the presentation portion. In other words, divide your presentation time up among the members of the group, but each student must give part of the presentation.
* All group member must individually submit each project portion to Blackboard. All group members’ names should appear on each individually submitted project papers.