

Personal PC Update

By Keith Gallistel

IT Project Management



Problem Statement/Justification

- The client's six year old Dell Dimension 4500 is too slow for Visual Studio 2008.
- The system had gone through previous upgrades to its memory, video card, DVD Burner, and hard drive to increase performance.
- Update is needed to keep up in class and get good grades.



Objectives

- Get a computer that doesn't freeze for 5 minutes when compiling, starting Java plug-in
- Get a computer that is future proofed so that it can run a 64 bit version of Vista



Project Authorization Dates

- Start Date: May 24, 2008
- End Date: January 4, 2009



Constraints

- Funding: Less than or equal to \$1,500
- Time: Must be done over either the five days off from work for Christmas or the five days off from work for New Years



Phases

- **Phase 1:**
 - Look into replacing Pentium 4 with Pentium D in old Dell 4500
- **Phase 2:**
 - Work at job to earn money for new computer
 - Set aside funds to make purchases for new computer



Phases (cont.)

- Phase 3:
 - Order parts to build computer
- Phase 4:
 - Build the computer
 - Install all necessary software
- Phase 5:
 - Test the system to make sure it is stable
 - Declare done when new computer passes testing



Tasks

- Research what the newest computer technology is for the next year.
- Gather tools from around the house, like screw drivers and pliers, that will be needed to build this project.



Key Assumption

- That because I installed an operating system, a new hard drive, a DVD burner, a new video card, and more RAM in my old computer; I can build a complete one as that is just one step above installing parts in an already built computer.



Obstacles and Risks

- Obstacles: I may not have enough skill to build the computer. The parts may not work well together.
- Risks: Static electricity may ruin the whole build if I'm not careful. Sweat or oil for my skin may ruin delicate connectors.

Estimated Budget

Item	Make/Model	Cost
Processor	Intel Core i7 920	\$299.99
Motherboard	Asus P6T Deluxe	\$299.99
RAM	G.Skill 3GB (3 x 1 GB) DDR3 SDRAM 1333 (2x)	\$219.00
Case	Cooler Master Centurion 534	\$54.99
Power Supply	COOLER MASTER Real Power Pro RS-650-ACAA-A1	\$99.99
Hard drive	Western Digital Caviar SE16 500 GB (2x)	\$129.98
Optical drive	Salvage Plextor DVD Burner from old computer	\$0.00
Monitor	salvage Dell 1704FTP from old computer	\$0.00
Video	HIS Radeon HD4870 1GB	\$239.99
Sound	Creative Sound Blaster X-Fi XtremeGamer	\$90.99
Keyboard/mouse	salvage keyboard from old computer	\$0.00
anti-static mat		\$25.00
Total		\$1,459.92



Contact and Primary Stakeholder

- Keith Gallistel
- kmgallistel1@ntc.edu
- Office: Home
- Roles: purchaser, builder, tester, user