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# Final Project

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CS 150 Final Project, Networks & Data Communications, Summer 06

## 1. Overview

Due - August 3

Choose one of the following to do as a final project. Presentations slides and all materials should be prepared and uploaded to both the gradebook and class forum before class on August 3. Each student should give a 5-10 minute presentation in class on August 3. Slides may be done in Power Point, but that is the least preferred method. You may choose to work in a group of up to 3 students. You may also work alone. Groups will be expected to do more work than those students who work alone. Groups must submit an explanation of what each member of the group did.

## 2. Report

Write a report on one of the options listed below. Your report must be at least one and one half (1 1/2) pages long. Note that this is a brief report so the content is more important than flowery descriptions. It should be written as a technical report, not a literary composition.

Attend an eSeminar (on-line from the comfort of your own computer) related to Networking. Or attend a live (in-person) seminar for example, a seminar presented by a local networking organization. Write a summary of the seminar for your classmates (and instructor). Your summary must be at least one and one half pages long and include the important points and how it relates to what you are learning in CIS 150. Here are some sites that link to eSeminars: <http://www.crn.com/sections/netseminar/> <http://www.networkcomputing.com/> Or summarize an article from a network related magazine (hardcopy or online) Here are some links to on-line magazines: <http://www.eweek.com/> <http://www.networkcomputing.com/> <http://www.eweek.com/> <http://www.cioinsight.com/> You must obtain approval from Prof. Nilson for the seminar or topic that you would like to cover for our class.

## 3. Volunteer Work

For anyone who is currently doing volunteer work in the networking or computer support area. (Or for anyone who has done this type of volunteer work in the past six months.) Write a report that describes the work that you did (tasks assigned to you

and your responsibilities). Include the skills that you learned (or utilized) in order to carry out your responsibilities. Discuss the benefits that you received from this experience. Describe how you would convince other students to do volunteer work in the area of networking. This report should be at one and one half pages long. Note: If the organization approves, include the name of the organization where you did your volunteer work and a contact name, phone, and email so that other students apply for similar volunteer opportunities.

## 4. Home Network

For anyone who has installed their own home network. Describe your experience including:

- All the equipment and how and why you selected the specific equipment
- All the operating systems involved
- A detailed description of the steps you followed to install and configure the equipment including what worked, what did not work and how you fixed it.
- How you set up security on your network (include any software you are using for this and its configuration).
- Describe how you have benefited from the experience of setting up your network.
- If you plan to make future upgrades to your network, please include a brief discussion of your plans – and why it is for the future.
- And why you would encourage your fellow students to set up their own network at home.

## 5. Topic Paper

Select a topic in Computer Networking that interest you. Write an in-depth report on this topic to share the information you find with your fellow students. You must have your topic approved by Prof. Nilson. Your report must include references. Your report must contain more in depth information than the information contained in our textbook.

## 6. Home Server

Setup a home server that can be accessed from the Internet. Setup DNS and Dynamic DNS if you do not have a static IP.

**Your server could include any or all of:**

- Webserver
- FTP Server
- SSH or Telnet Server
- Email Server
- Print Server

**Describe:**

- All the equipment and software and how and why you selected the specific equipment
- All the operating systems involved
- A detailed description of the steps you followed to install and configure the equipment including what worked, what did not work and how you fixed it.
- How you set up security on your network (include any software you are using for this and its configuration).
- Describe how you have benefited from the experience of setting up your network.
- If you plan to make future upgrades to your network, please include a brief discussion of your plans – and why it is for the future.
- And why you would encourage your fellow students to set up their own server at home.

## 7. Other

Choose another topic that you are interested in.