Research Assignment
CSCI 330

You are to write a paper and give a short presentation on a topic related to computer science. Below are some suggested areas, but you may propose your own. The paper and presentation will be separately graded.

Possible Topics
An interesting programming language or environment
Voice recognition systems
Computer systems in criminology or homeland security
Robotic support for the disabled
Gender issues in computer science
Ubiquitous (or pervasive) computing
Programming patterns
Visualization of algorithms
Universal web accessibility
Collaboration support systems
Identity theft and security
Smart Phones and the Disabled

The Paper
You will write a technical paper of at least 5 pages, double spaced, Times (or Times Roman, Times New Roman) 12-point font, 1-inch margins. It will have a cover page (not counted as one of the five) containing a title, your name, the date, CSCI 330, and the semester (e.g. Spring 2020), centered on the page. Your paper should be stapled in the upper left corner.

You should have at least 5 technical references, at least 3 of which should be available from the ACM Digital Library (you can login to this – choose Millersville as your institution and use your MU login credentials). You should use the ACM Bibliography format and in-text citations of the form [1], [2,3], and so forth.

Your paper should include details from the papers as well as an analysis and commentary on those papers. Part of your analysis could include a discussion of the social, legal, and ethical issues that your topic brings up. This should be done as a research paper with proper organization and transitions between topics, NOT as a series of sections with one section per paper. (“The first paper I read…” or “In the first paper…”, etc. is NOT acceptable.)

If your topic is a programming language, or a group of programming languages, your paper should include a critical evaluation according to the language evaluation criteria we learned in Chapter 1.

You will be graded on the technical content of your paper as well as on its mechanical details (such as spelling, grammar, organization, use of appropriate headings, clarity, etc.). See the attached paper rubric for details.
The Presentation
Your presentation should be approximately 10 minutes in length - significantly short or long presentations will result in grade deductions. It should be appropriately supported by the use of presentation media (such as PowerPoint). Your presentation will be graded on its content and effectiveness, including presentation skills. ** The rubric for this will be posted soon. I am refining it for online delivery **

Deliverables and Timeline

- (15 pts) April 17th: Proposal with Bibliography - You must propose a topic and present a bibliography for your paper and presentation. Your proposal will be a one-paragraph abstract and your bibliography should be in ACM bibliographic format (https://www.acm.org/publications/authors/reference-formatting). Submit this to the D2L Paper Proposal and Bibliography assignment as a PDF.

- (35 pts) Last Week of Class: Presentations

- (150 pts) May 1st: Paper. Submit this to D2L as a PDF.