

EMIS 1305: Computing Technology: Historical and Ethical Perspectives

History Research Project Assignment

Spring 2018

For this assignment, using Microsoft Word 2016 and its functionality;

- Complete the assignment **Information Tools – Finding the Right Stuff**. Completing this assignment first is necessary to correctly complete the history project.
- Write a 2-3 page paper with the following requirements
 - Name the file **StudentLastName-History-Paper**
 - Choose 3 academic/scholarly sources related to your topic.
 - With the information from all sources, respond to the following statements; (enter the number then the response in the paper)
 1. Identify and explain the historical technological development(s), event(s), or the figure's contribution(s).
 2. Summarize the major social and or ethical changes that took place in a defined historical period.

(I.e. purpose of the technological development, what problems did it address and/or create, effectiveness, legal issues, environmental effects etc.)

Example Paper Format:

Cover Page with specified information

Response to statement 1 with information from all 3 sources,

Response to statement 2 with information from all 3 sources.

Citations/Bibliography using Word reference feature

Sources

- 3 scholarly/academic sources from various media formats (books, journals, articles, etc.).
- Every source should be cited using Word reference feature MLA style.
- The class textbooks cannot be used as one of the sources. These can be used as a starting point for your information. (*CMPTR3* and *A Brief History of Computing*).
- For all sources not from the Central University Library (CUL), you must complete and submit a Website Evaluation Form. This will assist in deciding whether or not the source is academic/scholarly. No more than one website not from CUL can be used as a source. This source must also classify as a scholarly/academic source.

Grading will be based upon the quality of your analysis and how clearly the information is presented in the written form.

Topics selection

- Choose a topic from the topics listed in this assignment sheet. If you have a topic in mind that is not on the list, you will need professor approval.
- Only one student per topic.
- You will need to sign up for a topic by **Monday February 12, 11:59 pm via Canvas discussion – Choose Your History Project Topic**.
- I will not assign any topics for you. Therefore if you do not sign up by the specified date and time, you will earn a grade of 0 for the project.
- No topic changes are allowed without professor approval!

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Submissions are due by Friday 3/9/18 11:59 pm via Canvas

Late submissions are subject to penalty 10 pts per day (including weekends).

Submit the following;

- All papers must be completed using Word 2016.
- **StudentLastName-Information-Right-Stuff**
- **StudentLastName-History-Paper**
- Web site evaluation for no more than one source found out of CUL (if any used)

Paper Format

- Word 2016 document named **StudentLastName-History-Paper**
- 2-3 pages (minimum 2 full pages)
- 1" margins top and bottom;
.7 margins left and right
- Times New Roman 12pt
- Line spacing set to 1.5 (spacing before – Opt, spacing after – Opt)
- Use complete sentences in responding to statements
- Page numbers at bottom center of the page, do not show on cover page
- Cover page – your own choice of cover page from Word; should include Subject, Date, Student Name, Course Name and section – EMIS 1305-80X
- Citations/bibliography page (Word reference feature with MLA style)

NOTE: The Cover page and the Citations/bibliography page do not count as one of the 2-3 pages.

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Topics

1. The main contributions of early civilizations to modern computing. (Babylonians, Egyptians, Greek and Romans, Islamic scholars, the Indians and Chinese)
2. Discuss major changes that occurred to the definition of 'computer' from late 1800s through WWII.
3. The evolution and contributions to the computing field of major technology companies from the time it was founded until today. (IBM, Motorola, Microsoft, Apple, Digital Research Inc., Intel, HP)
4. Development of mobile technology from radio in 1940s until today's technologies.
5. Discuss the origins, components, and significance of the fundamental architecture underlying modern computers - von Neumann architecture - and its major changes since mid-1940s through today.
6. The importance of early computers before and during WWII developed in the United States, Britain, Germany, and Australia. (i.e. motivation for faster methods of computation, 1940-1956)
7. Major changes to the design of computers from 1950s-1970s.
8. Development of the personal computer, 1970s-1990s, and its impact on society.
9. Fundamental changes in the computing field and its impact on society in the 1980s and 1990s.
10. Development of the Internet (starting 1930s) and its key constituents.
11. Development of the World Wide Web as a revolutionary milestone in computing.
12. The five generations of programming languages and their impact on society, 1930-today.
13. Discuss intellectual property rights through the development of computing technology.
14. Government legislation through the development of computing technology.
15. The development of cryptography in the field of computing technology.
16. The development of artificial intelligence in the field of computing technology.
17. Discuss the development of robots and the applicability to artificial intelligence.
18. Discuss the distinct differences in the first 4 generations of computers. Explain the 5th generation of computers; how is its distinction different, what impact has it and will it make on peoples' business and social lives.

Choose one of the following major figures in computing and discuss his/her contribution and its impact on the field of computing.

19. Richard Stallman
20. Ed Yourdan
21. Grace Murray Hopper
22. Donald Knuth
23. Rene Descartes
24. John McCarthy

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Accomplishment Level / Requirements	Absent (0-13 Points)	Beginning (14-16 Points)	Developing (17-19 Points)	Accomplished (20-22 Points)	Exemplary (23-25 points)
Summarize in your own prose the major changes that took place over time in a defined historical period for chosen topic. Include the impact of those changes on society, individuals, and institutions.	Summary is not clear and is not reflective of any of the major changes that took place over a defined historical period. Does not identify any social impact or changes	Summary is mostly written in the student's own words and shows a basic understanding of some of the changes that took place over a defined historical period. Does not identify any social changes/impact	Summary is in the student's own words and shows an understanding of some of the major changes that took place over a defined historical period. Attempts to identify the social change/impact but is vague or inaccurate.	Summary is in the student's own words and shows a solid understanding of the major changes that took place over a defined historical period. Identifies the social changes/impact with accurate but incomplete pertinent facts and information	Summary is concise, and synthesizes, in the student's own words, information on the major changes that took place over a defined historical period. Develops a clear, concise description of the social change/impact by detailing pertinent facts and information such as; what caused the change, what is the change, what else was going on during this time period of the impact, how does the change/impact affect the future
Accomplishment Level / Requirements	Absent (0-11 Points)	Beginning (12-13 Points)	Developing (14-15 Points)	Accomplished (16-17 Points)	Exemplary (18-20 points)
Organization	Paper cannot be understood because there is no sequence of information/events	Difficult to follow because paper jumps around	There is no sequence to follow; paragraphs are not connected to each other.	Paper is written in a logical sequence and easy to follow	Paper is written in a logical interesting sequence which is easy to follow
Identify the main events, actors, and evidence involved in a defined historical period for chosen topic (Historical Technological Development, Event, or Figure's Contribution from WWII – present).	Student is unfamiliar with the main events, actors, evidence involved in a defined historical period.	Student correctly identifies only few of the main events, actors, evidence involved in a defined historical period. Paper is comprised of irrelevant, superfluous information regarding the subject.	Student correctly identifies some of the main events, actors, evidence involved in a defined historical period. Paper is comprised of rudimentary information regarding the subject.	Student correctly identifies most of the main events, actors, evidence involved in a defined historical period. Paper is comprised of relevant information regarding the subject but fails to elaborate.	Student correctly identifies the main events, actors, evidence involved in a defined historical period. Paper demonstrates full knowledge (more than required) regarding the subject with explanations and elaboration

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Evaluate the 3-4 sources From Various Media Formats (academic and scholarly)	No Sources are used for the paper. OR Word reference not used for bibliography/citations	Sources are invalid or irrelevant to the subject. More than 3 sources.	1 academic/scholarly source with quality information regarding the subject	2 academic/scholarly sources with quality information regarding the subject	3 academic/scholarly sources with quality information regarding the subject
Mechanics	(0-1 Points)	(2 Points)	(3 Points)	(4 Points)	(5 points)
	Paper has >4 spelling/grammar errors	Paper has 4 spelling/grammar errors	Paper has 3 misspellings/grammar errors	Paper has 1-2 misspellings and/or grammatical errors	Paper has 0 misspellings/grammar errors
	Paper does not follow the specified format	Paper has 3 or more formatting errors	Paper has 2 formatting errors	Paper has 1 formatting error	Paper has 0 formatting errors
	More than 3 pages or less than 1 page	Length of the paper is 1 page or more than 3 pages	Length of the paper is 2-2 ¼ pages	Length of the paper is approximately 2 ¾ pages	Correct length of paper, 2-3 pages