

Final Paper General Overview:

“Mini Research Paper”

1. Pick a topic of your choice in software, software development, or in technology in general. Make sure to email me your topic so I have an idea of what your paper will be about. You can choose a topic from the list provided (see below) or you can choose your own topic. The topics may seem too general or broad. When you write your paper, you can choose to focus on an aspect of that topic. How you present the topic is up to you, but be sure to back up your statements with the appropriate citation(s).
 - **Example:** Someone may choose to write about SDLC while another person may just choose to write about Agile. The person writing about SDLC may talk about the process, methodologies, and/or models that include Agile, Waterfall, etc.. Whereas, a person just writing about Agile, may be more specific about Agile and just briefly talk about SDLC. So it is really up to you how you want to write the paper.
2. In your paper, be sure to:
 - Address the topic of your interest and why you chose it
 - The relevance it has
 - The benefits of that particular topic and practical applications in real world
 - Pros and/cons
 - Further or additional research that can be done on the topic.
3. If you decide to add diagrams (graphs/charts), please be sure to explain the results/diagram or explain what the diagram means. There is no limit to the number of diagrams, but remember this is a paper, so it should not be 3 pages of diagram and one page citing the diagram. Also the diagrams should go in context to whatever you are claiming.

Format

Length: 5 pages

1. Title Page (example given on Blackboard)
2. 3 pages of content
 - Double spaced (Do not write single spaced).
 - You are allowed to use direct quotes from a paper/article/source you are citing to prove your point. You do not have to re-word it if you do not want to. Make sure to use proper citing in text citing where needed. Make sure to explain your stand on the topic you are discussing. As mentioned above, you can use diagrams/charts/etc. as needed for your paper. This will count in the 3 pages. (3 pages is the minimum, you are allowed to write more if you want)
 - Times New Roman font.
 - Font size: 12-pt
3. 1 page reference (this does not mean the whole page has to be full)
 - Total of 3 citations. You can use either ACM, APA, or IEEE format for your reference page. (This is not an English paper, so do not use MLA citation). Citation format and resources will be given.
 - Whatever you choose as your 3 references (article, journal, etc.) is up to you.
 - Example sources to prove your work: online articles, academic articles (can be found on brooklyn college online library), journal, website, webpage, magazine, etc.

Below are suggested topics to choose from for the final paper (you also have the option to choose your own topic, just email me for the confirmation). Please pick one topic:

1. Software Development Life Cycle (SDLC)
2. Agile
3. Waterfall
4. Cleanroom Engineering
5. Spiral Model
6. V Model
7. Robotic Surgery
8. The Internet
9. The limits of computation and communication
10. Quantum computers/computing
11. The ATM and bank security
12. Encrypting and decrypting
13. Database architecture
14. Database management
15. Database architecture & management
16. Computer-assisted education
17. Neuron networks and machine learning
18. The importance of open source software
19. Version control systems
20. Computer viruses
21. Cloud storages : advantages and disadvantages
22. Why are there so many programming languages?
23. Relational Databases
24. Computer graphics and gaming
25. Algorithms
26. Communication and security
27. Artificial Intelligence
28. Conscious Robots
29. CRISPR Gene Editing
30. Augmented Reality
31. Virtual Reality
32. Intergalactic Network