

MAC283 Research paper assigned on November 27, 2024

Write a scientific research paper that investigates the properties of Digital design circuitry from its inception till today. Be sure to pay a special attention to the advents of Boolean algebra, Logic Gates, flip-flops and how they interact with a hardware control language such as assembly language. Be sure to include also a paragraph on how the digital design revolutionized today's technology. The paper must include the following sections:

- i. Introduction 1/2 - 1 page
- ii. Methodology 1/2 - 1 page
- iii. Project Analysis 1 -2 pages
- iv. Conclusion 1/2 - 1 page
- v. Annotated Bibliography

The introduction should be no more than a page long and should clearly state the objective(s) of your research paper. It should provide a brief history of the digital technology and the nature of your project.

The methodology section should explain in great details to the layman how the digital technology works from hardware and software point of view.

The project analysis section should include flip flops, logic gates and compare features from digital circuit technology with features from analog circuit technology. Explain the advantages and disadvantages of both types of technologies.

The conclusion should relate to the objective(s) stated in the introduction and summarizes the highlights of the paper.

The annotated bibliography must conform to either APA or MLA standards and remember to reference all your sources. Pay attention to the content, grammar and style. Please adhere to the following timeline: December 6, 2024 project is due. Upload it to your e-Portfolio and send a copy to prof@dpeled.com