

# Essay Proposal

## COMP110 - Computer Architecture Essay

Your Name Here

December 11, 2015

### Topic

My essay will be on

### Paper 1

**Title:** A Mathematical Theory of Communication

**Citation:** [1]

**Abstract:** “The recent development of various methods of modulation such as PCM and PPM which exchange bandwidth for signal-to-noise ratio has intensified the interest in a general theory of communication. A basis for such a theory is contained in the important papers of Nyquist and Hartley on this subject. In the present paper we will extend the theory to include a number of new factors, in particular the effect of noise in the channel, and the savings possible due to the statistical structure of the original message and due to the nature of the final destination of the information.”

**Web link:** <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6773024>

**Full text link:** <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6773024>

**Comments:** This is a seminal article, which laid the foundations for what we now call information theory. It has been cited more than 76 000 times, making it one of the most-cited articles in computer science.

### Paper 2

**Title:** Title of paper

**Citation:** [?]

**Abstract:** Copy and paste the abstract here

**Web link:** Give the URL of the paper in IEEE Xplore, ACM Digital Library, or similar  
**Full text link:** Give the URL of a downloadable PDF of the paper, if you can find one  
**Comments:** Write a few sentences on how you found the article and why you believe it is relevant and/or important.

### Paper 3

**Title:** Title of paper

**Citation:** [?]

**Abstract:** Copy and paste the abstract here

**Web link:** Give the URL of the paper in IEEE Xplore, ACM Digital Library, or similar

**Full text link:** Give the URL of a downloadable PDF of the paper, if you can find one

**Comments:** Write a few sentences on how you found the article and why you believe it is relevant and/or important.

### Paper 4

**Title:** Title of paper

**Citation:** [?]

**Abstract:** Copy and paste the abstract here

**Web link:** Give the URL of the paper in IEEE Xplore, ACM Digital Library, or similar

**Full text link:** Give the URL of a downloadable PDF of the paper, if you can find one

**Comments:** Write a few sentences on how you found the article and why you believe it is relevant and/or important.

### Paper 5

**Title:** Title of paper

**Citation:** [?]

**Abstract:** Copy and paste the abstract here

**Web link:** Give the URL of the paper in IEEE Xplore, ACM Digital Library, or similar

**Full text link:** Give the URL of a downloadable PDF of the paper, if you can find one

**Comments:** Write a few sentences on how you found the article and why you believe it is relevant and/or important.

## References

- [1] C. E. Shannon, “A mathematical theory of communication,” *The Bell System Technical Journal*, vol. 27, no. 3, pp. 379–423, 1948.