

Capstone Project Technical Report

Project Title: _____

Student Name: _____

Student ID: _____

Supervisor: _____ Dr. Qixin Deng

Date: _____



replace with your own photo

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Abstract

This report presents the technical work undertaken as part of the capstone project. The project focused on [*brief description of the project topic*]. The aim of the project was to [*brief description of the aim or goals*]. This report outlines the problem definition, methodology, implementation, and results. A comprehensive evaluation of the project is provided, along with a discussion of its limitations and future directions.

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1 Introduction

Background

[Provide a detailed background of the problem you are solving. Discuss the motivation behind the project, its relevance, and any previous research, activities or experience that might relate to your project.]

Problem Statement

[Define the specific problem (assigned tasks) you aim to solve. Make sure it is clear and detailed.]

Objectives

[List the main objectives or goals of your capstone project.]

2 Reference Review

[Provide a review of related work, technologies, or similar projects you referred to and used in your project. Cite previous studies or projects and describe how your project differs or builds upon them.]

3 Methodology

System Overview

[Give an overview of the system you are developing or analyzing, including any diagrams if necessary.]

Design and Architecture

[Describe the design of your project. Include any diagrams such as flowcharts that illustrate the architecture or the datapath of the system.]

Implementation Details

[Provide detailed information on how you implemented the system. This can include code snippets, algorithms, or technical workflows.]

```
1 #Python
2 import numpy as np
```

```
1 //C++
2 #include <stdio>
3 int main() {
4     printf("Hello, world!");
5 }
```

```
1 //swift
2 let x = 42
3 println("Hello, \(x)!")
```

```
1 Plain text!
2 If you want to put some plain text or your language is not
  compatible with minted
```

The Wabash campus is shown in Figure 1.



Figure 1: example

Table 1: Example Table Using tabularx and float

Column 1	Column 2	Column 3
Data 1	Data 2	Data 3
Data A	Data B	Data C

4 Conclusion and Future Work

Conclusion

[Summarize the key outcomes of your project. Revisit the objectives and explain how they were achieved.]

Future Work

[Suggest any future improvements or extensions that could be made to your project.]

5 Results and Discussion

Results

[Present the results of your project. This can include charts, graphs, tables, or screenshots of your system working.]

Analysis

[Discuss the results in detail. Compare the results to your objectives and explain any discrepancies or successes.]

Limitations

[Describe any limitations encountered during the project. These can be technical, resource-based, or time constraints.]

6 References

References

- [1] Author Name, *Book Title*, Publisher, Year.
- [2] Author Name, *Article Title*, Journal Name, Year.
- [3] Author Name, *Website or Online Resource*, URL.