ECE 445

SENIOR DESIGN LABORATORY

INDIVIDUAL PROGRESS REPORT

Project #114

AN AWESOME PROJECT MADE BY AN AMAZING TEAM

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Abstract

Put your abstract here

Keywords Keyword 1, keyword 2, keyword 3

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1 Introduction

1.1 Problem statement

This is a sample document of this template, and here comes citation. You can cite [1], [2] and [3]. However, putting citation at the end of a sentence is also acceptable [4].

1.2 Importance

$$f(x) = \sum_{n=0}^{\infty} \frac{1}{n!} f^{(n)}(x_0) (x - x_0)^n, x \in U(x_0)$$

$$e^{ix} = 1 + ix + \frac{1}{2!} (ix)^2 + \frac{1}{3!} (ix)^3 + \dots + \frac{1}{n!} (ix)^n + \dots$$

$$= 1 + ix - \frac{1}{2!} x^2 - i \frac{1}{3!} x^3 + \frac{1}{4!} x^4 + i \frac{1}{5!} x^5 - \dots$$

$$= \left(1 - \frac{1}{2!} x^2 + \frac{1}{4!} x^4 - \dots\right) + i \left(x - \frac{1}{3!} x^3 + \frac{1}{5!} x^5 - \dots\right)$$

$$= \cos x + i \sin x$$

$$(1.1)$$

1.3 Literature Review

This is a sample listing.

```
#include<stdio.h>
   void fuzzy(int x){
2
        return x;
3
4
   int main(){
5
        int a = 0, b, c;
6
        scanf("%d", &b);
7
8
        c = b;
        if (a == b)
9
             a = fuzzy(c);
10
11
             b = fuzzy(a);
12
        printf("%d<sub>\\\\</sub>%d\n", a, fuzzy(c));
13
        return 0;
14
15
   }
```

2 Methodology

Test the ability¹ to print some units, say (in texts), $10\times10^5\,\mu\text{m}\cdot\Omega\cdot^\circ$. It also applies to equations,

$$R_t = 10 \times 10^5 \,\mu\text{m} \cdot \Omega \cdot ^{\circ} \tag{2.1}$$

¹This is an example footnote.

3 Results

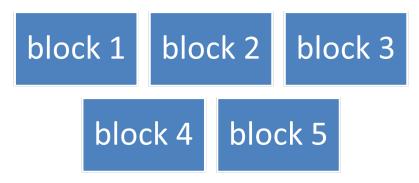


Figure 3.1 An example figure.

4 Discussion

5 Conclusion

References

- [1] F. Author1 and S. Author2, Random Book. Publisher, 2022.
- [2] F. Author3 and S. Author4, "Random journal paper," *Journal of Randomness*, vol. 10, no. 2, pp. 100–120, 2021.
- [3] F. Author7 and S. Author8, New Book. Publisher, 2023.
- [4] F. Author5 and S. Author6. "Random webpage." (2020), [Online]. Available: https://www.example.com (visited on 01/01/2022).

Individual Progress Report Example

A Example

An example piece of code:

```
from numpy import *
   from scipy import *
2
3
   # plot some random plots of a random variable
4
   def plot_random():
       import matplotlib.pyplot as plt
6
       plt.plot(random.randn(100))
7
       plt.show()
8
9
  # call the plotting function
10
  plot_random()
```

A.1 Some Test Data

A.2 Derivation of Square Law

Acknowledgement

Thank you thank you!