**THESIS TITLE HERE**

**SECOND LINE IF NECESSARY**

**THIRD LINE IF NECESSARY, FIT TITLE IN THREE LINES**

A DISSERTATION SUBMITTED TO

THE GRADUATE SCHOOL OF

ENGINEERING AND NATURAL SCIENCES

OF ISTANBUL MEDIPOL UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR

THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN

ELECTRICAL, ELECTRONICS ENGINEERING AND CYBER SYSTEMS

By

Name Last name

Month, Year of defense

TITLE OF THE THESIS

By Name Surname

12 December 2020

We certify that we have read this dissertation and that in our opinion it is fully adequate, in scope and in quality, as a dissertation for the degree of Doctor of Philosophy.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Dr. X (Advisor)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Dr. Y (Co-Advisor) (If exist)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assoc. Prof. Dr. Y

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assist. Prof. Dr. Z

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assist. Prof. Dr. T

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assist. Prof. Dr. U

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assist. Prof. Dr. V (If exist)

Approved by the Graduate School of Engineering and Natural Sciences:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Dr. Yasemin Yüksel Durmaz

Director of the Graduate School of Engineering and Natural Sciences

I hereby declare that all information in this document has been obtained and presented in accordance with the academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

Signature :

Name, Surname: NAME SURNAME

ACKNOWLEDGEMENT

I acknowledge that lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing tristique risus nec feugiat in fermentum posuere urna nec. Ornare quam viverra orci sagittis eu volutpat.

Name Surname

November, 2020

CONTENTS

**Page**

ACKNOWLEDGEMENT iv

CONTENTS v

LIST OF FIGURES vi

LIST OF TABLES vii

LIST OF SYMBOLS viii

ABBREVIATIONS ix

ÖZET x

ABSTRACT xi

1. INTRODUCTION 1

1.1. Title Title 2 2

1.1.1. Title title 3 3

1.1.1.1. Title title 4 3

2. THEORETICAL PART 4

3. EXPERIMENTAL PART 6

3.1. Title Title 2 6

3.1.1. Title title title 3 6

4. RESULTS AND DISCUSSION 7

4.1. Title Title 2 7

5. ADDITIONAL CHAPTER (NOT COMPULSORY) 8

6. CONCLUSIONS AND FUTURE WORK 9

BIBLIOGRAPHY 10

APPENDIX A 11

CURRICULUM VITAE 12

LIST OF FIGURES

[**Figure 1.1:** Figure caption lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. 1](#_Toc80176076)

[**Figure 1.2: a)** Lorem ipsum dolor sit amet, consectetur adipiscing elit, **b)** Ornare quam viverra orci sagittis eu volutpat. 2](#_Toc80176077)

[**Figure 2.1:** Figure caption lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. 4](#_Toc80176078)

LIST OF TABLES

[**Table 1.1:** Table title lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. 2](#_Toc80176079)

[**Table 2.1:** Table caption lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. 5](#_Toc80176080)

LIST OF SYMBOLS

**w** :Angular Momentum

**Ω** :Resistance

**λ** :Wavelength

ABBREVIATIONS

**CAS** :Chemical Abstracts Service

**EtOH** :Ethanol

TÜRKÇE BAŞLIK

ÖZET

İsim Soyisim

Elektrik-Elektronik Mühendisliği, Doktora

Tez Danışmanı: Prof. Dr. X

Eş Danışman: Prof. Dr. Y (Varsa)

Aralık, 2020

Türkçe özet 3 sayfayı geçmeyecek, en az 300 sözcük olacak şekilde sunulmalıdır. Türkçe özet 3 sayfayı geçmeyecek şekilde sunulmalıdır. Türkçe özet 3 sayfayı geçmeyecek şekilde sunulmalıdır.

Anahtar sözcükler: Anahtar Sözlerim.

TITLE OF THE THESIS

ABSTRACT

Name Lastname

Ph.D. in Electrical, Electronics Engineering and Cyber Systems

Advisor: Prof. Dr. X

Co-Advisor: Prof. Dr. Y (If exists)

December, 2020

A good abstract should contain balanced material from each and every chapter of the thesis. Use the following as a checklist for your abstract:

Motivation:

Why do we care about the problem and the results? Avoid unnecessary words like “In this thesis”.

Problem statement:

What problem are you trying to solve? What is the scope of your work (a generalized approach, or for a speciﬁc situation)? In some cases it is appropriate to put the problem statement before the motivation, but usually this only works if most readers already understand why the problem is important.

Approach:

How did you go about solving or making progress on the problem? Did you use simulation, analytic models, prototype construction, or analysis of ﬁeld data for an actual product? What was the extent of your work? Put the result there, in numbers. Avoid words such as ”very”, ”small”, or ”signiﬁcant.”

Conclusions:

What are the implications of your answer? Are your results general, potentially generalizable, or speciﬁc to a particular case?

Keywords: Key one, key two.

CHAPTER 1

# INTRODUCTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing tristique risus nec feugiat in fermentum posuere urna nec. Ornare quam viverra orci sagittis eu volutpat. Praesent elementum facilisis leo vel fringilla est. Mattis vulputate enim nulla aliquet porttitor lacus luctus accumsan tortor. Enim nec dui nunc mattis enim ut tellus elementum. Vitae tempus quam pellentesque nec nam aliquam sem et tortor. Viverra nibh cras pulvinar mattis. Felis bibendum ut tristique et egestas quis. Diam maecenas ultricies mi eget mauris. Mi ipsum faucibus vitae aliquet nec ullamcorper sit amet. Fermentum et sollicitudin ac orci phasellus egestas tellus rutrum tellus. Quis hendrerit dolor magna eget. Pretium viverra **Figure 1.1** suspendisse potenti nullam ac tortor vitae purus faucibus [1].



**Figure 1.1:** Figure caption lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Sed tempus urna et pharetra pharetra massa massa ultricies. Velit scelerisque in dictum non consectetur. Amet nisl suscipit adipiscing bibendum est. Pellentesque eu tincidunt tortor aliquam nulla. Orci phasellus egestas tellus rutrum tellus pellentesque eu tincidunt. Enim facilisis gravida neque convallis. Viverra vitae congue eu consequat ac. Sem nulla pharetra diam sit. Massa id neque aliquam vestibulum morbi blandit cursus risus at. Nunc non blandit massa enim nec dui nunc mattis enim. Molestie nunc non blandit massa. Magna etiam tempor orci eu lobortis elementum. Bibendum arcu vitae elementum curabitur vitae. Urna porttitor rhoncus dolor purus non enim. Eget velit aliquet sagittis id. Sapien faucibus et molestie ac feugiat sed. Id volutpat lacus laoreet non curabitur gravida. Sit amet venenatis urna cursus eget nunc scelerisque. Pellentesque dignissim **Figure 1.2a** sit **Figure 1.2b** enim sit amet venenatis urna cursus [1]–[3].



**Figure 1.2: a)** Lorem ipsum dolor sit amet, consectetur adipiscing elit, **b)** Ornare quam viverra orci sagittis eu volutpat.

## Title Title 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing tristique risus nec feugiat in fermentum posuere urna nec. Ornare quam viverra orci sagittis eu volutpat. Praesent elementum facilisis leo vel fringilla est. Mattis vulputate enim nulla aliquet porttitor lacus luctus accumsan tortor [4], [5]. Enim nec dui nunc mattis enim ut tellus elementum. Vitae tempus quam pellentesque nec nam aliquam sem et tortor [6]. Viverra nibh cras pulvinar mattis. Felis bibendum ut tristique et egestas quis **Table 1.1**.

**Table 1.1:** Table title lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **D** |
| Lorem ipsum dolor | Lorem ipsum dolor | Lorem ipsum dolor | Lorem ipsum dolor |

### Title title 3

#### Title title 4

CHAPTER 2

# THEORETICAL PART

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing tristique risus nec feugiat in fermentum posuere urna nec. Ornare quam viverra orci sagittis eu volutpat. Praesent elementum facilisis leo vel fringilla est. Mattis vulputate enim nulla aliquet porttitor lacus luctus accumsan tortor. Enim nec dui nunc mattis enim ut tellus elementum. Vitae tempus quam pellentesque nec nam aliquam sem et tortor. Viverra nibh cras pulvinar mattis. Felis bibendum ut tristique et egestas quis. Diam maecenas ultricies mi eget mauris. Mi ipsum faucibus vitae aliquet nec ullamcorper sit amet. Fermentum et sollicitudin ac orci phasellus egestas tellus rutrum tellus. Quis hendrerit dolor magna eget. Pretium viverra suspendisse potenti nullam ac tortor vitae purus **Figure 2.1** faucibus **Table 2.1**.



**Figure 2.1:** Figure caption lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing tristique risus nec feugiat in fermentum posuere urna nec. Ornare quam viverra orci sagittis eu volutpat.

**Table 2.1:** Table caption lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **D** |
| Lorem ipsum dolor | Lorem ipsum dolor | Lorem ipsum dolor | Lorem ipsum dolor |

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing tristique risus nec feugiat in fermentum posuere urna nec. Ornare quam viverra orci sagittis eu volutpat.

CHAPTER 3

# EXPERIMENTAL PART

## Title Title 2

### Title title title 3

CHAPTER 4

# RESULTS AND DISCUSSION

## Title Title 2

CHAPTER 5

# ADDITIONAL CHAPTER (NOT COMPULSORY)

CHAPTER 6

# CONCLUSIONS AND FUTURE WORK

BIBLIOGRAPHY

[1] E. Demirel, E. Karaca, and Y. Yuksel Durmaz, “Effective PEGylation method to improve biocompatibility of graphene derivatives,” *Eur. Polym. J*., vol. 124, no. January, p. 109504, Feb. 2020, doi: 10.1016/j.eurpolymj.2020.109504.

[2] M. Brittberg and A. Lindahl, “Tissue engineering of cartilage,” in *Tissue Engineering*, vol. 4, no. 1, Elsevier, 2008, pp. 533–557.

[3] M. Zhang, R. R. Naik, L. Dai, M. Zhang, R. R. Naik, and L. Dai, *Carbon Nanomaterials for Biomedical Applications*, vol. 5. Springer, 2016.

[4] T. Worlikar *et al.*, “Non-invasive liver cancer ablation using histotripsy in an in vivo murine hepatocellular carcinoma (HCC) model,” in *2017 IEEE International Ultrasonics Symposium (IUS)*, Sep. 2017, pp. 1–1, doi: 10.1109/ULTSYM.2017.8092951.

[5] S. Park et al., “Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets,” *Chem. Mater.,* vol. 20, no. 21, pp. 6592–6594, 2008, doi: 10.1021/cm801932u.

[6] J. M. Hamamreh, “Advanced Cross-Layer Secure Communication Designs for Future Wireless Systems,” Ph.D. dissertation, Dept. Elect., Electron. Eng. And Cyber Syst., Istanbul Medipol University, Istanbul, Turkey, 2018.

APPENDIX A

Appendix A1

CURRICULUM VITAE

Photo

Name Surname :

Place and Date of Birth :

E-Mail :

**EDUCATION:**

B.Sc. : Graduation year, University, Faculty, Department

M.Sc. (If exists) : Graduation year, University, Faculty, Department

**PROFESSIONAL EXPERIENCE AND REWARDS:**

• 2015, Best Oral Presentation at Important Conference, Istanbul

• 2015-2016 Fall Semester, Honorary Student, Istanbul Medipol University

**PUBLICATIONS, PRESENTATIONS, AND PATENTS ON THE THESIS:**

• M. Brittberg and A. Lindahl, “Tissue engineering of cartilage,” in *Tissue Engineering*, vol. 4, no. 1, Elsevier, 2008, pp. 533–557.

• D. Caratelli, M. C. Viganó, G. Toso, and P. Angeletti, “Analytical placement technique for sparse arrays,” presented at the 32nd ESA Antenna Workshop, Noordwijk, The Netherlands, Oct. 5–8, 2010.

**OTHER PUBLICATIONS, PRESENTATIONS, AND PATENTS:**