**MINISTRY OF EDUCATION AND TRAINING**

**HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY AND EDUCATION**

**FACULTY FOR HIGH QUALITY TRAINING**



**GRADUATION THESIS**

**Topic: ” RESEARCH, DESIGN AND MANUFACTURE WIRELESS NETWORK APPLICATION HEALTH MONITORING SYSTEM TO MONITOR ELDERLY PATIENTS AT HOME”**

Instructor: **NGUYEN VU LAN Ph.D**

Students: **VO MINH QUAN 19146130**

**NGUYEN HOANG DUONG 19146085**

**VU DUC ANH 19146003**

School year: **2019 - 2023**

**Ho Chi Minh city, July/2023**

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**MECHATRONICS DEPARTMENT**



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HCM CITY UNI OF TECHNOLOGY AND EDUCATION SOCIALIST REPUBLIC OF VIETNAM

**FACULTY FOR HIGH QUALITY TRAINING Independence – Liberty – Happiness**

**Mechatronics department**

**GRADUATION PROJECT ASSIGNMENT**

**Semester II / year 2023**

Instructor: NGUYEN VU LAN Ph.D

Student:

1. VO MINH QUAN ID: 19146130 Phone:
2. NGUYEN HOANG DUONG ID: 19146085 Phone:
3. VU DUC ANH ID: 19146003 Phone:

***1. Project code:*** CLC100312

***Project name:*** RESEARCH, DESIGN AND MANUFACTURE WIRELESS NETWORK APPLICATION HEALTH MONITORING SYSTEM TO MONITOR ELDERLY PATIENTS AT HOME

***2. Original data and documents:***

***3. Main content of the project:***

***4. Expected products:***

***5. Project delivery date:***

***6. Project submission date:***

***7. Presentation language: The report: English* 🗹 *Vietnamese* 🞎**

***Defense presentation: English* 🗹 *Vietnamese* 🞎**

**DEAN HEAD OF SECTION INSTRUCTOR**

*(Sign, write full name) (Sign, write full name) (Sign, write full name)*

🞎 protection allowed ……………………………………………………………………………………………………..

(Instructor sign, write full name)

**PLEDGE**

* Topic: *Wireless sensor network health monitoring system to monitor elderly patients at home*
* Instructor: *Nguyen Vu Lan Ph.D*
* Students: *Vo Minh Quan*
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* Phone:
* Email:
* Graduation thesis submission date:
* Pledge: *“I hereby declare that this graduate thesis is the work of I researched and implemented it myself. I did not copy from any article published without citing the source. If there is any violation Anyway, I take full responsibility."*

Ho Chi Minh City, XX July 2023

Sign

**PLEDGE**

* Topic: *Wireless sensor network health monitoring system to monitor elderly patients at home*
* Instructor: *Nguyen Vu Lan Ph.D*
* Students: *Nguyen Hoang Duong*
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* Graduation thesis submission date:
* Pledge: *“I hereby declare that this graduate thesis is the work of I researched and implemented it myself. I did not copy from any article published without citing the source. If there is any violation Anyway, I take full responsibility."*

Ho Chi Minh City, XX July 2023

Sign

**PLEDGE**

* Topic: *Wireless sensor network health monitoring system to monitor elderly patients at home*
* Instructor: *Nguyen Vu Lan Ph.D*
* Students: *Vu Duc Anh*
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* Graduation thesis submission date:
* Pledge: *“I hereby declare that this graduate thesis is the work of I researched and implemented it myself. I did not copy from any article published without citing the source. If there is any violation Anyway, I take full responsibility."*

Ho Chi Minh City, XX July 2023

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My teachers, family, and friends have all given me a lot of support as I've worked to finish the graduate internship report.

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In particular, we would like to express our deep gratitude to Mr. Nguyen Vu Lan Ph.D, who agreed to lead us to carry out the graduation project. The teacher gave us suggestions on how to implement the project.

Finally, kindly express your sincere gratitude to my family and friends for their assistance and support in the past.

Students

**ABSTRACT**

**RESEARCH, DESIGN AND MANUFACTURE WIRELESS NETWORK APPLICATION HEALTH MONITORING SYSTEM TO MONITOR ELDERLY PATIENTS AT HOME**

Health is always important, especially after going through the covid 19 pandemic. The elderly are less able to self-monitor and take care of their own health, doctors will find it very difficult if they want to monitor and care for many patients. Therefore, we want to research, design and manufacture a device that can make it easier and more convenient for doctors to monitor the patient's health for the purpose of timely treatment if the patient has problems.

<Students>

**TABLE OF CONTENTS**

**CHAPTER 1: INTRODUCTION**

* 1. **The urgency of the subject**
  2. **Scientific and practical significance of the topic**
  3. **Research objectives of the topic**
  4. **Object and scope of the study**
     1. research subjects
     2. Research scope
  5. **Research Methods**
     1. Methodological basis
     2. Specific research methods
  6. **Graduation project structure**

**CHAPTER 2: OVERVIEW**

**2.1 Introduction**

**CHAPTER 3: THEORETICAL BASIS**

**CHAPTER 4: DIRECTIONS AND SOLUTIONS**

**CHAPTER 5: TECHNOLOGY PROPOSED / DESIGN CALCULATION**

**CHAPTER 6: PRODUCTION EXPERIMENT / EXPERIMENT – REVIEW**

**CONCLUSION – RECOMMENDATION**

**REFERENCES**