

SANTA CLARA UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING

Date: November 28, 2018

I HEREBY RECOMMEND THAT THE THESIS PREPARED UNDER MY SUPERVISION BY

Shannen Edwin
Dominic Magdaluyo

ENTITLED

Doorbell for the Hearing Impaired

BE ACCEPTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF

BACHELOR OF SCIENCE IN COMPUTER SCIENCE & ENGINEERING

Thesis Advisor

Department Chair

Doorbell for the Hearing Impaired

by

Shannen Edwin
Dominic Magdaluyo

Submitted in partial fulfillment of the requirements
for the degree of
Bachelor of Science in Computer Science & Engineering
School of Engineering
Santa Clara University

Santa Clara, California
November 28, 2018

Doorbell for the Hearing Impaired

Shannen Edwin
Dominic Magdaluyo

Department of Computer Engineering
Santa Clara University
November 28, 2018

ABSTRACT

A good abstract is a concise summary (1–2 paragraphs) of the entire project: introduction, problem statement, work accomplished, results, conclusions, and recommendations. When you write the abstract, imagine that the reader will not read anything else, but that you must get your major point across immediately. This requires efficiency of words and phrases. An abstract is written to stand alone, without jargon or reference to figures and tables in the report body.

Table of Contents

1	Introduction	1
1.1	Motivation	1
1.2	Solution	1
2	Requirements	2
2.1	Description	2
2.2	Functional Requirements	2
2.3	Non-Functional Requirements	2
2.4	Constraints	2
3	Use Case Diagram	3
3.1	Description	3
3.2	Functionality	3
3.2.1	Power System on and off	3
3.2.2	Activate Doorbell	3
3.2.3	Register Element to the System	3
3.2.4	Remove Element from the System	3
4	Activity Diagrams	4
4.1	Description	4
5	Architecture Diagram	5
5.1	Description	5
6	Technology Used and Design Rationale	6
6.1	Description	6
7	Conceptual Model	7
7.1	Description	7
8	Test Plan	8
8.1	Description	8
9	Risk Analysis	9
9.1	Description	9
10	Development Timeline	10
10.1	Description	10

List of Figures

Chapter 1

Introduction

1.1 Motivation

This is the introduction to your thesis and should be page number one. The main body of your thesis should be double spaced.

1.2 Solution

Chapter 2

Requirements

2.1 Description

2.2 Functional Requirements

2.3 Non-Functional Requirements

2.4 Constraints

Chapter 3

Use Case Diagram

3.1 Description

3.2 Functionality

3.2.1 Power System on and off

3.2.2 Activate Doorbell

3.2.3 Register Element to the System

3.2.4 Remove Element from the System

Chapter 4

Activity Diagrams

4.1 Description

Chapter 5

Architecture Diagram

5.1 Description

Chapter 6

Technology Used and Design Rationale

6.1 Description

Chapter 7

Conceptual Model

7.1 Description

Chapter 8

Test Plan

8.1 Description

Chapter 9

Risk Analysis

9.1 Description

Chapter 10

Development Timeline

10.1 Description