



De La Salle University – Dasmariñas

**NETWORK-BASED PAYROLL SYSTEM WITH BIOMETRICS
SCANNER FOR SHOWA ALUMINIUM MANUFACTURING
CORPORATION PHILIPPINES**

**An Undergraduate Thesis Proposal Presented to
Computer Studies Department
College of Science
De La Salle University – Dasmariñas**

A large, faint circular seal of the Information Resource Center at De La Salle University - Dasmariñas. The seal features a central emblem with a book and a star, surrounded by the text "AKLATANG EMILIO AGUINALDO - INFORMATION RESOURCE CENTER" and "De La Salle University - Dasmariñas • Since 1974 • Dasmariñas, Cavite, Philippines".

**In Partial Fulfilment of the Requirements for the
Degree of Bachelor of Science in
Information Technology**

By

**Rañola, Daniel Gilbert M.
Almis, Charles Ace M.**

September, 2010



ABSTRACT

Showa Aluminum Manufacturing Corporation (SAPH) use MS Excel Spread Sheet as their current payroll system. Due to the company's rapid growth, such system can't handle the changing needs of the company in terms of security, consistency, integrity, reliability and efficiency.

The proponents have identified the problem of the company and provided them solution through the introduction of a Network-based Payroll System with biometrics Scanner. This proposed system will make the computations and generation of reports faster, easier, reliable and consistent through automated report generation and automated computations. The proposed system is user-friendly both for the users of the system and to those who will manage it.

It also provides a safe and secure database for all the records of SAPH with backup recover module. It is connected to their Local Area Network, so it can be accessed in any authorized computers and according to the levels of authorization of users and has integrated Biometrics scanner for enhanced security purposes.

The proponents used tools and theories such as Data Flow Diagram to study the flow of the system and provide solutions to the existing problems encountered by SAPH.



The proponents also studied previous and related studies in order to further increase the proponents knowledge about the system provide proper solutions to the problems encountered, and how the system can be further improved. The proposed system will help SAPH to provide better services for all its employees.

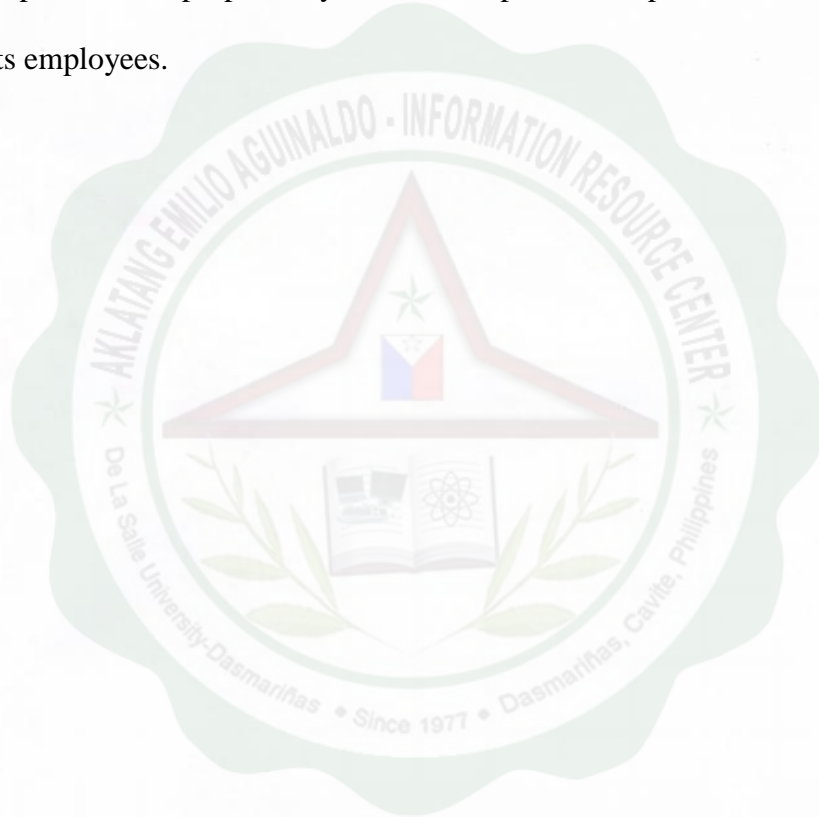




TABLE OF CONTENTS

1.0 Introduction

1.1 Background of the Study	1-4
1.2 Statement of the Research Problem	4-5
1.3 Statement of Objectives	6-7
1.3.1 General Objectives	
1.3.2 Specific Objectives	
1.4 Significance of the Study	7-8
1.5 Scope and Limitations of the Study	9-10
1.6 Methodology of the Study	10-13

2.0 Review of Related Literature

2.1 Local Literature	14-16
2.2 Foreign Literature	17-20

3.0 Theoretical Framework

3.1 Statement of Assumptions	21
3.2 Operational Definitions	21-25
3.2.1 Definition of Terms	
3.2.2 Definition of Processes	
3.3 Theories Used in the Study	25-27

4.0 The Existing System

4.1 Description of the System	28
4.2 Data Capture	29
4.3 Inputs	29-30
4.4 Processes	30-35
4.5 Files	35-36



4.6 Outputs	36-38
4.7 Data Flow Diagram	38
4.8 Problem Areas	38-39
5.0 The Proposed System	
5.1 System Overview	40
5.2 System Objectives	40-41
5.3 Scope	41-42
5.4 System Justification	42
6.0 Design	
6.1 Inputs	43-44
6.2 Processes	44-49
6.3 Files	50-52
6.4 Outputs	52-53
7.0 Conclusions and Recommendations	
7.1 Resource Requirements	
7.1.1 Software Requirements	54
7.1.2 Hardware Requirements	54-55
7.1.3 Human Resource Requirements	55
7.2 Installation Plans	
7.2.1 System Installation	55-57
7.2.2 Training Plans	57-59
7.2.3 Conversion Plans	60
7.2.4 Testing	60



8. Conclusions and Recommendations

8.1 Conclusions	61
8.2 Recommendations	62

List of Appendices

Appendix A: Context Diagram of the Existing System	63
Appendix B: Level 0 Diagram of the Existing System	64
Appendix C: Child Diagram of the Existing System	65
Appendix D: Level 0 Diagram of the Proposed System	66
Appendix E: Entity Relationship Diagram	67
Appendix F: Normalization	68-69
Appendix G: Screenshots	70-74
Appendix H: Sample Forms	75-85

Bibliography

Curriculum Vitae