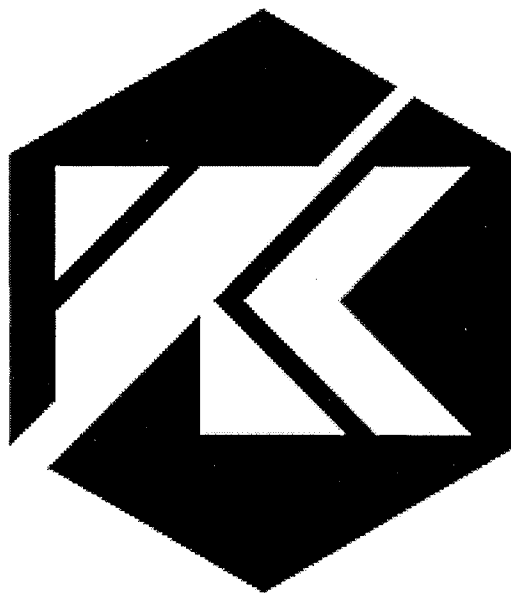


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CASE STUDY : KAYU KAYANGAN



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Table of Content

Chapter 1 - Introduction

1.1 Background of the study.....	1
1.2 Problem statement.....	2
1.3 Purpose of the study.....	3

Chapter 2 – Company Information

2.1 Background.....	4
2.2 Product services and technology.....	4
2.3 Marketing Strategy.....	5
2.4 Financial achievements.....	6

Chapter 3 – Company Analysis

3.1 SWOC (Strength, Weaknesses, Opportunity, Constraint)	7
3.2 Findings and Discussion.....	8
3.3 Conclusion.....	8
3.4 Recommendation and Improvement	9

References.....	10
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Appendices.....	10
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List of Photo

Photo 1 : Kayu Kayangan signage at the entrance.....	1
Photo 2 : Editing client's design using a Laser CAD computer software	1
Photo 3 : The worker operate laser cutting machine.....	2
Photo 4 : Souvenir end product after assembled manually piece by pieces.....	2
Photo 5 : A laser cut machine in Kayu Kayangan.....	3
Photo 6 : A system software used in design phase.....	3
Photo 7 : Product of Souvenir Model.....	4
Photo 8 : Products of engraving.....	4
Photo 9 : Architectural Site Model.....	5
Photo 10 : Kayu Kayangan Instagram Profile	5
Photo 11 : Kayu Kayangan Facebook Profile.....	5
Photo 12 : Sculpture Exhibition at Wisma Central.....	6
Photo 13 : SACH Exhibition in Sunway Pyramid.....	6
Photo 14 : End product of mosque model making.....	6
Photo 15 : A recommendation to buy a cheaper laser cut machine.....	9
Photo 16 : The team with the general manager and assistant manager.....	10

List of Diagram

Diagram 1 : Organizational Structure of Kayu Kayangan.....	4
Diagram 2 : SWOC diagram of Kayu Kayangan.....	7

Chapter 1 - INTRODUCTION

1.1 Background of the study

Kayu Kayangan is a small business in Setia Alam, Selangor that offers the following services:

- Laser cutting and engraving services.
- The number of products made is based on the speed of productions.
- The workflow determine the speed of production.
- On average, the company produce more than 300 souvenirs product per month.

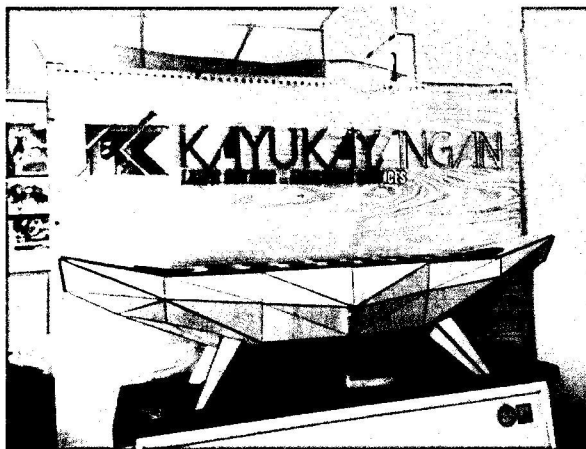


Photo 1. Kayu Kayangan signage at the entrance.

The production is a 3 step process :

Step 1 – Editing and retouched client's design by using Laser CAD computer software.

Step 2 – Laser cutting machine start to operate based client's designed mentioned above.

Step 3 – Model making are manually assembled pieces by pieces based on the end product of the laser cutting machine from previous step.

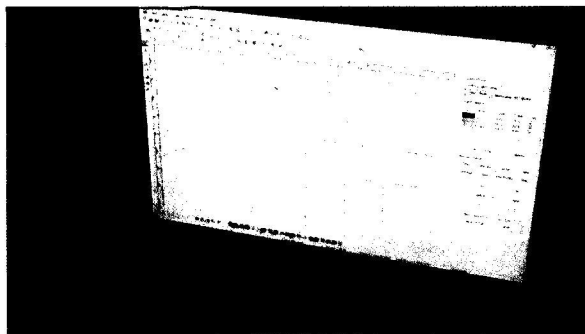


Photo 2. Editing client's design using a Laser CAD computer software

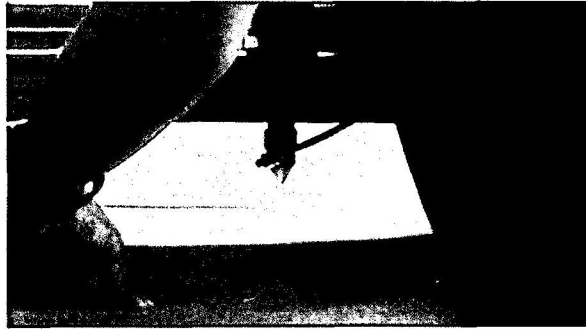


Photo 3. The worker operate laser cutting machine. ~



Photo 4. Souvenir end product after assembled manually piece by pieces.

1.2 Problem statement

Observations of Kayu Kayangan workflow shows:

- System crashed during implementation of design which would cause the next station to idle. Thus, would result in production delay.
- Frequent machine breakdown that causes a production delay especially if it occurs during peak season.