

PRODUCT PROPOSAL

BY

EFFICIENT
TECHNOLOGY

Ian Hoh Wen Yang 1001955881

Vincent Effendi 1001954910

Nico Halisno 1001955110

Lim Yoon Lip 1001955904

Lim Zheng Shen 1001955478

Table of Contents

Company Profile	4
Vision Statement	5
Mission Statement.....	5
Corporate Information	6
Organizational Chart	6
Product Proposal.....	8
Specification and Dimension	9
Method of Construction.....	9
Product Safety.....	10
Durability Test.....	11
Budget Plan	11
Work Schedule.....	13
Pictures of Progress	14
Declaration.....	16



COMPANY PROFILE

1, Jalan Puncak Menara Gading, Taman Connaught,
56000 Kuala Lumpur,
Wilayah Persekutuan Kuala Lumpur

Company Introduction

Efficient Technology (E-Tech) is a company driven on making only the best products for our customers. E-Tech was founded in 2010 which was nearly a decade ago. The founding fathers of our company (Ian Hoh, Lim Zheng Shen, Lim Yoon Lip, Nico Halisno, Vincent Effendi) are bold, daring and passionate engineers in infusing advanced technology and modern innovation into human lifestyle hoping to create a better and simpler lifestyle at a public friendly price. In line with our mission, we are looking forward to having our products exist in every single household and therefore E-Tech has established itself as a formidable player in futuristic lifestyle products in Malaysia by providing excellence in after-sales services for each of our products.

Vision Statement

Creating flexible lifestyle where single usage products are of the past.

We believe that a product fitted with many features while retaining its affordability and size is the future.

Mission Statement

Technological advancement, creating better lifestyle

We plan to put at least one of our products in every household by the end of the year.

Corporate Information

Company Registered Name : Efficient Technology Sdn. Bhd.

Company Registration number : 879473B

Date of Incorporation : 18th September 2010

Company Registered Address : 1, Jalan Puncak Menara Gading, Taman Connaught,
56000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur

Contact Information

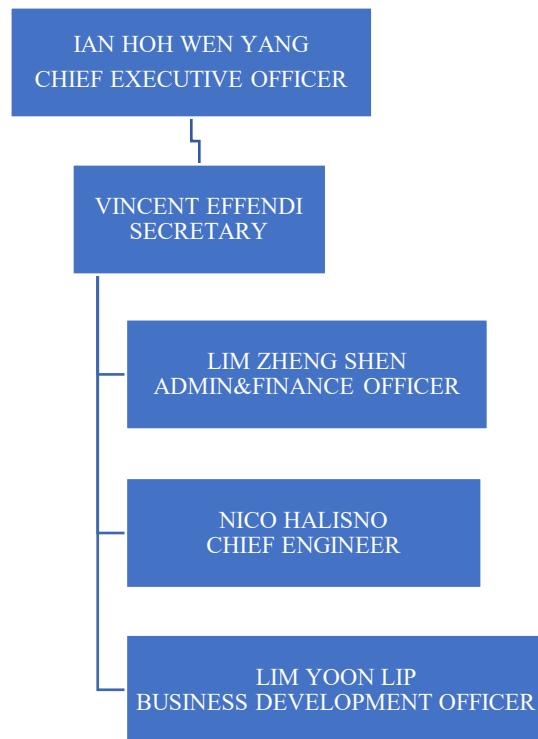
Mailing Address : 1, Jalan Puncak Menara Gading, Taman Connaught, 56000
Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur

Telephone : 017-2091168

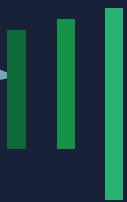
E-mail : 1001955904@ucsiuniversity.edu.my

Website : www.efficienttechnology.com.my

Organizational Chart



PRODUCT PROPOSAL



Product Proposal

Why?

In the golden era of computers, it is almost guaranteed that everyone in the world owns at least 1 laptop at home. The market is filled with cheap laptop tables that offer minimal features or expensive laptop tables that offer many features. With the existence of these various kinds of laptop table on the market, we have reasons to believe that we have found the apex of laptop table designs inside our laptop table. Our product offers a good feature to price ratio and we're committed to providing only the best of our services and products.



Figure 1.1: The Foldable Laptop Table

The required materials for the construction of the Foldable Laptop Table are as follows:

Materials required	Quantity
Acrylic	1
Laptop fan blades with built in motor	1
PVC pipes	1
Epoxy Resin	1
PVC pipe connectors	4
USB port	2
Chloroform	1

The required tools for the construction of the Foldable Laptop Table are as follows:

Corded power drill	Sandpaper
Jigsaw	Flat File
Brush	Round File
Screwdriver	Polishing Wax
4mm Spanner	400 Grit and 600 Grit Sanding Disc

Specification and Dimension

Specification:

1. 7 Layers of lightweight, gloss-black acrylic
2. Foldable legs
3. Retractable mousepad and drawer
4. A large, USB powered fan
5. Anti-slip material at the legs
6. Replaceable top plate

*Include with an additional flat top plate for drawing

Dimensions	Laptop Table	Drawer	Mousepad
Width	295mm	138mm	178mm
Length	392mm	140mm	159mm
Height	38mm (Folded) 141mm (Extended)	2.5mm	2.5mm

Method of Construction

The Foldable Laptop Table was constructed with the following procedures:

1. The acrylic block was labelled according to the sketch's dimensions and cut into pieces using a jigsaw.
2. A laptop cooling pad was ripped apart, the USB port and fan blade were salvaged.
3. Multiple holes were drilled into the first layer of the laptop table to allow ventilation.

4. The fan blade was fastened onto the first layer with epoxy resin.
5. The USB port was held in place at the side of the table with epoxy resin.
6. The USB port and fan were tested for faults.
7. Four pipe holders were pasted at the bottom of the first layer.
8. Two pieces of rectangular-shaped pipes were installed, with each of them was attached to two pipe holders
9. The side beams of the laptop table were stacked together with a total of seven layers using chloroform.
10. All sides were grinded using a grinder.
11. Two holes for the mouse and cup area were left on the left and right side of the laptop table.
12. Multiple holes were drilled into the top layer for ventilation.
13. Acrylic stoppers were installed at the ends of the mouse and cup drawer respectively
14. The mouse and cup area were slid into their respective sections.
15. Four mounting holes were drilled into the side of the top and bottom layer.
16. Screws were placed into the holes made in Step 12 and fastened with nuts at the bottom.

Product Safety

Based on our management philosophy which in line with our vision and mission are committed to ensure the best quality of our products and safety

The edges of our product had been grinded away and blunted which in turn removes the hazardous sharp edges it originally had, giving way to a smooth and rounded edge. Besides that, holes were drilled into the top layer and the bottom layer to provide ventilation to the fan inside. Cooling the computer will help maintain the temperature of the acrylic below a laptop, preventing deformation of the acrylic. Product is lightweight, this helps reduce injury in an event that it was dropped onto any limbs. Besides that, it also helps prevent damage to the spine when carrying it in a bag. The PVC-pipe legs were grinded and ensured that no sharp edges were protruding from the surface, eliminating the chances of injury. The fans used in this product is soft plastic, rounded on each fan blade and flexible, this makes the chances for cuts virtually zero.

Durability Test

The durability test cannot be completed as of this time because of the recent plague outbreak. The durability test was scheduled some time in August. The date is subject to change based on the outcome of the epidemic. The current raw data we have at the moment is that it can withstand weights up to 5KG which is equivalent to 2 gaming laptops.

Budget Plan

The material cost of the Foldable Laptop Table is tabulated below:

Materials	Quantity	Cost/unit (RM)	Total (RM)
Acrylic Board (Gloss Black)	3"x4" (1pcs)	60.00	60.00
Cooling Pad (USB port included)	1 pc	10.00	10.00
PVC pipes & Holder	2"x5" (1 pcs)	6.00	6.00
PVC glue	1 bottle	2.00	2.00

The tooling cost of the Foldable Laptop Table is tabulated below:

Tools	Quantity	Cost/unit (RM)	Total (RM)
Corded power drill	1	0.00	0.00
Jigsaw	1	0.00	0.00
Brush	1	0.00	0.00
Screwdriver	1	0.00	0.00
4mm Spanner	1	0.00	0.00
Sandpaper	1	0.00	0.00
Flat File	1	0.00	0.00
Round File	1	0.00	0.00
Polishing Wax	1	0.00	0.00
400 Grit and 600 Grit Sanding Disc	1	0.00	0.00

*The tooling costs were free because we were able to utilize UCSI university's mechanical lab.

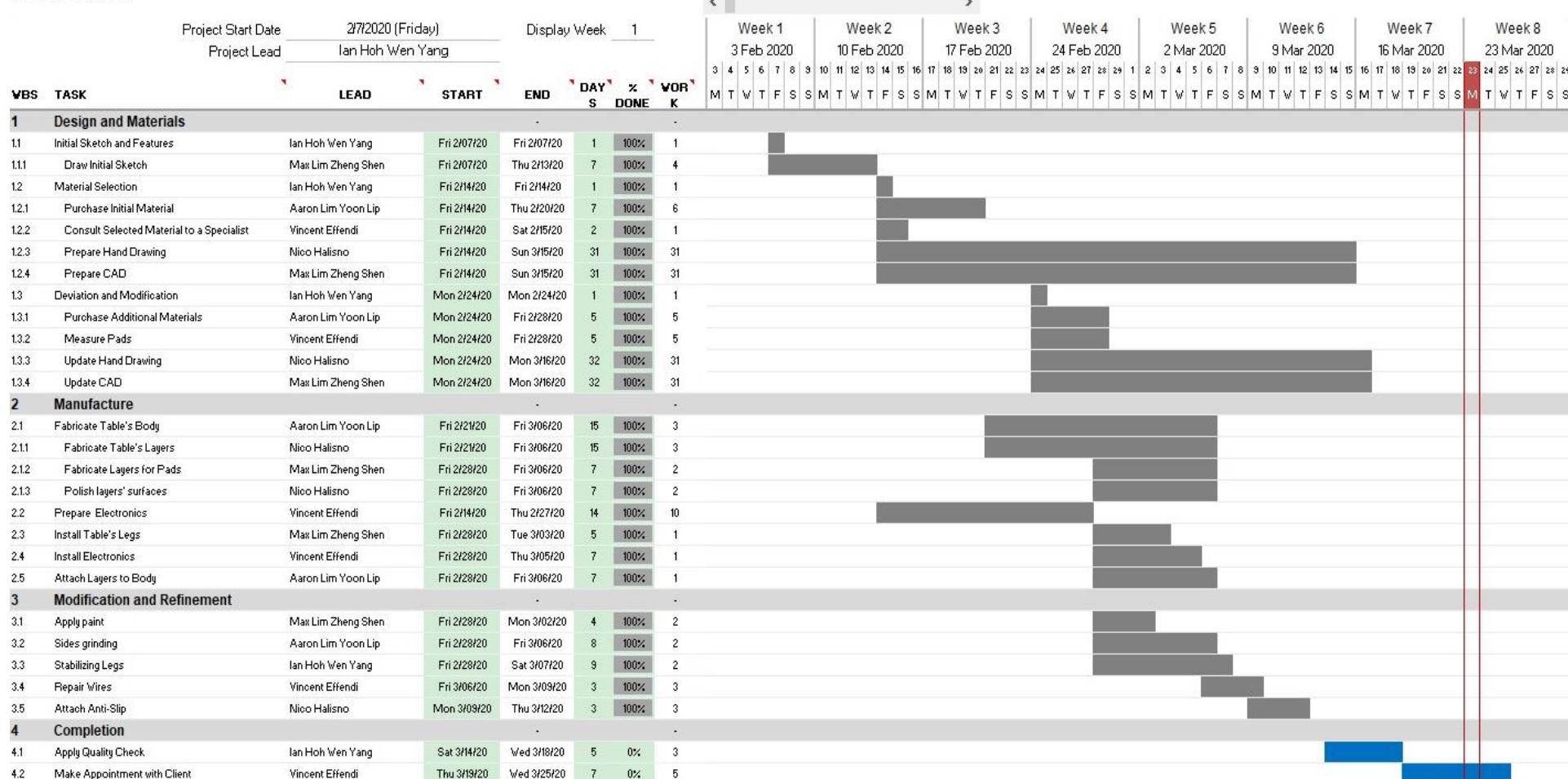
The estimated cost of the project is tabulated below:

Material cost	RM 78
Tooling cost	Free of charge
Total project cost	RM78

Work Schedule

Project 1001 Portable Laptop Table Project Schedule

Efficient Technology



Pictures of Progress



Figure 1.2: Measuring and cutting of the acrylic board

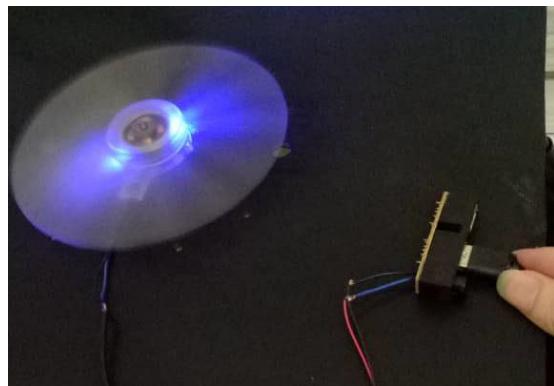


Figure 1.3: Sticking the fan on the board and testing the fan

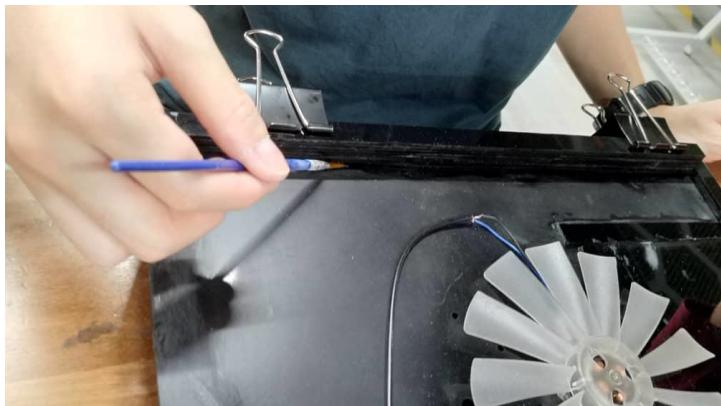


Figure 1.4: Applying chloroform to stick the acrylic together



Figure 1.5: Using a grinder to grind away imperfection



Figure 1.6: Drilling holes for fan ventilation



Figure 1.7: Finished laptop table (uncovered)

Declaration

We hereby verify that this business proposal is our original creation and it is derived from our own thoughts, study, research, blood, sweat, and tears and was not copied from any other source. Any plagiarism from a third party will result in legal action towards the said party. This document is bounded by copyright and any materials taken from this document shall and must be given credit to, failure to comply with these requirements will result in legal action being taken towards the said party.

Efficient Technology

27-3-2020



END