



AC TECH

AC MECA (M) SDN BHD
ICAM SDN BHD



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

INDUSTRIAL TRAINING PRESENTATION

19 JULY - 9 OCTOBER 2020

NURUL SYAZWANI BINTI ZA'BA
A17KM0381





4. INDUSTRY

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01

SELF INTRODUCTION



NAME : NURUL SYAZWANI BINTI ZA'BA



MATRIC NO : A17KM0381



IC NO : 98060901-01-5656



PROGRAMME : SKMM/3



FACULTY SUPERVISOR : DR AHMAD HUMAZI BIN ROZAINI



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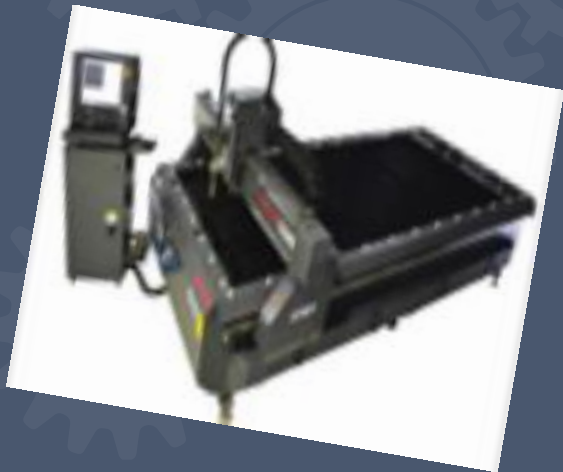
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- AC MECA (M) SDN. BHD.
- No. 378 Jalan Idaman 1/3 Senai Industrial Park,
Taman Desa Idaman, 81400 Senai,
Johor Darul Takzim, Malaysia.
- Established in the year 2002 as engineering and trading company, they have developed a new computer numerical control (CNC) system for plasma cutting machine.





Vision

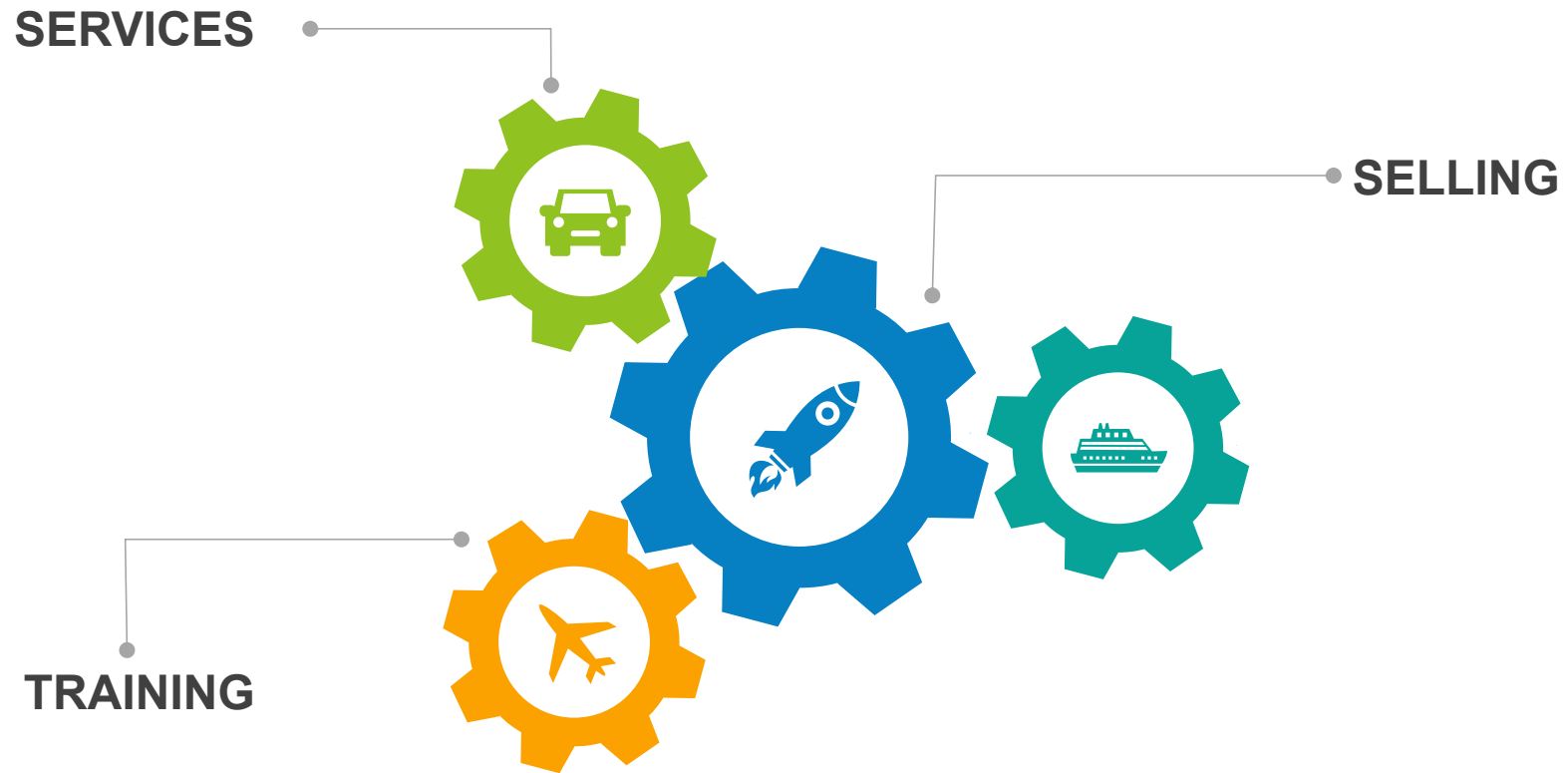
- ACMECA is the leading provider of affordable cnc machine and system solutions to the metal industry.
- As cost pressure grows, production times are becoming shorter and skilled staff is harder to find. Customers no longer want to invest machine with weak system solution and technical support. Instead, they are looking for compatible system solutions that set new standards of productivity, effectiveness, autonomy, precision and user friendliness

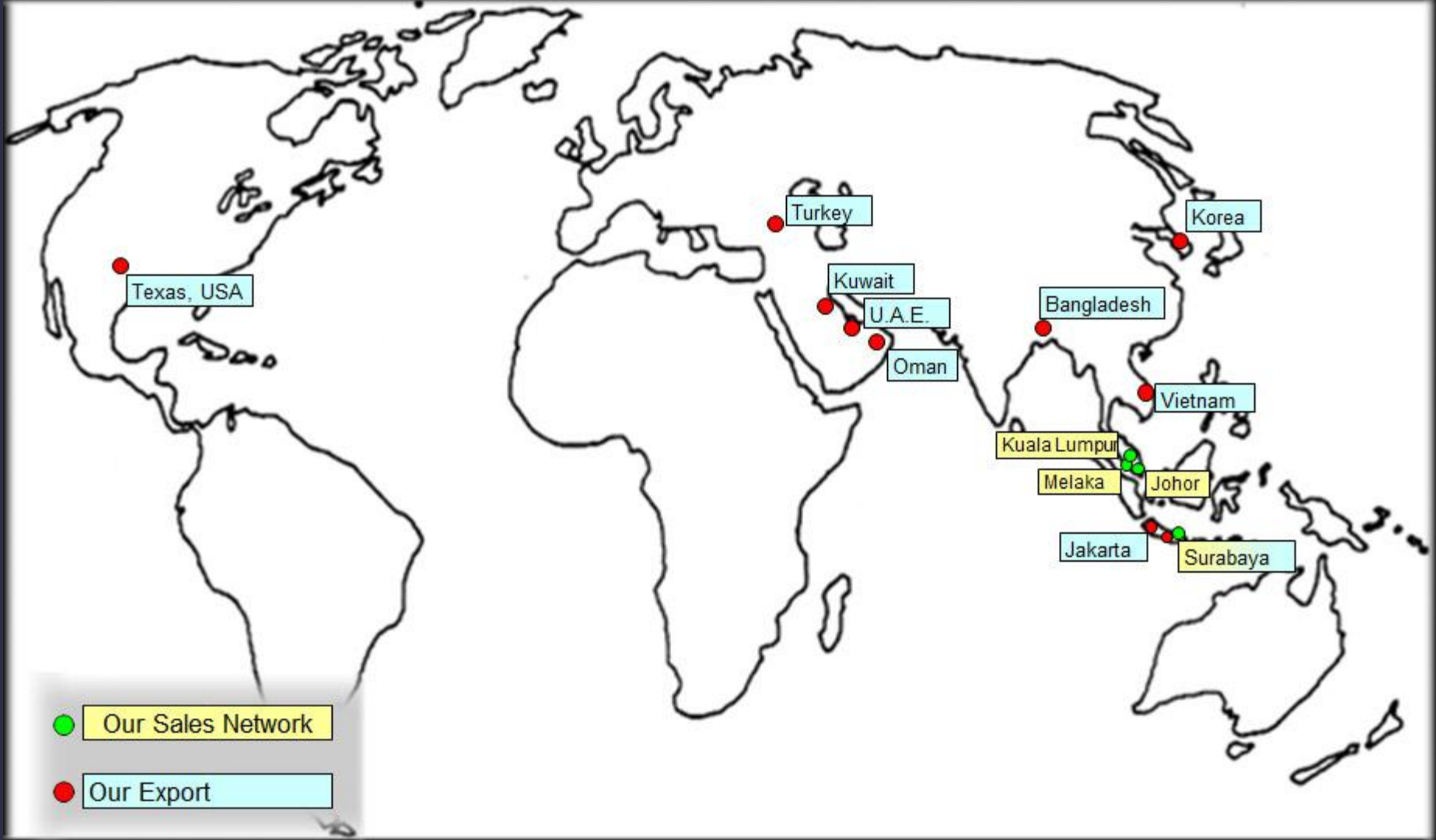
Corporate Value: " A ENTHUSIAST & RELIABLE PARTNER AIMING FOR EXCELLENCE"

Strategy

- Competitive advantage through innovation and technology leadership in affordable CNC Plasma Cutting Machine
- Increase value added for the customer with commitment in machine technology, quality and durability, services, spare parts, wear parts and consumables from a single source

JOB SCOPE







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To expose internship student for actual sample products fabrication and process planning with CNC router machine, Ucam V11 software, factory equipment and tooling.



Through the process, they may be able to perform from a fresh new beginner to a technical person to manipulate and understanding the process flow of a product design, practice to judge and analysis the best process, base on the actual machine, so ftware and tooling limittation and ability to suit the product.

Schedule:

Week 1: (20 Jul~25 Jul 2020)

- ✓ Introduction of company
 - Company background
 - Company History
 - Vision and Mission
 - Organization chart
 - Details of supervisor
 - Safety rules

- ✓ General function operation Procedure for CNC router
 - General function how to link machine function with programming
 - Introduction machine zero point, home position, work piece zero point
 - Understanding for machine zero point and work piece zero point
 - Hands on practice

Week 2: (27 Jul~31 Jul 2020)

- General function operation Procedure for CNC router
 - How to run G code program
 - Know about cutter type and cutting speed
 - Know machine ability and limitation
 - How to fix material on table
 - Type of material

- process planing for machining part sample
 - Number of machining process involve

Week 3: (3 Aug~8 Aug 2020)

- Ucam V11 software programming
 - ✓ Introducing 2D and 3D CAD
 - ✓ Video Tutorial on CAD function
 - Add on and explanation by supervisor
 - explorer drawing function in 2D

Week 4: (10 Aug~14 Aug 2020)

- Ucam V11 software programming
 - Introducing CAM function
 - Video tutorial on CAM function
 - Add on and explanation by supervisor

 - explorer programming function
 - show sample making with CNC machine and software
 - Link process planing for machining with software cutting strategy
 - know the machine ability and limitation

Week 5 : (17 Aug~ 22 Aug 2020)

- Brainstorming concept and topic to design
- Propose , discuss and choose sample to be make
- Preparation sketching, presentation and discussion

Week 6 : (24 Aug~ 28 Aug 2020)

- Drawing of main design and proposal
- Detail drawing and graphic presentation
- Sub drawing preparation
- Overall process planning

Week 7 : (31 Aug~ 4 Sept 2020)

- Material and cutter preparation
- CAM programming preparation
- Jig and fixture design for material on machine

Week 8 : (7 Sept~ 12 Sept 2020)

- Prototype making and machining
- Assembly and finishing
- Video and photo record for sample making process and procedure

Week 9 : (14 Sept~ 18 Sept 2020)

- Machine operation manual preparation for beginner user
 - safety precaution
 - How to create G code base on design graphic
 - How to transfer G code and run with machine
 - How to set zero point X, Y and Z
 - How Install cutter
 - How to set and fix material on machine
 - How to set parameter for machining
 - How to run

Week 10 : (21 Sept~ 26 Sept 2020)

- Advance CNC machine operation
 - how to resume from break point
 - multiple work piece zero point
 - Analysis observe cutter failure and chips from workpiece

Week 11 : (28 Sept~ 2 Oct 2020)

- Advance software programming for 3D
- 3D Graphic preparation
- G code programming (roughing , finishing & etc)

Week 12 : (5 Oct~ 9 Oct 2020)

- Programming and 3D prototype making
- Assembly and finishing
- Video and photo record for sample making procedure
- Report binding and submit



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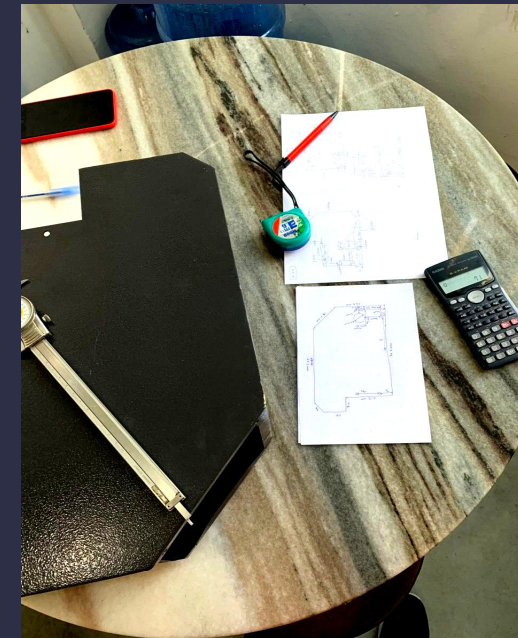
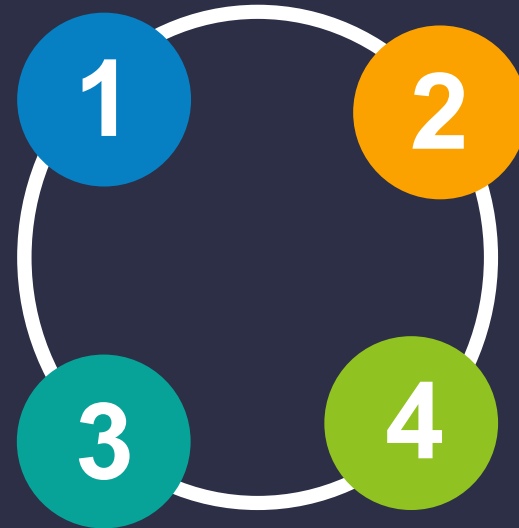
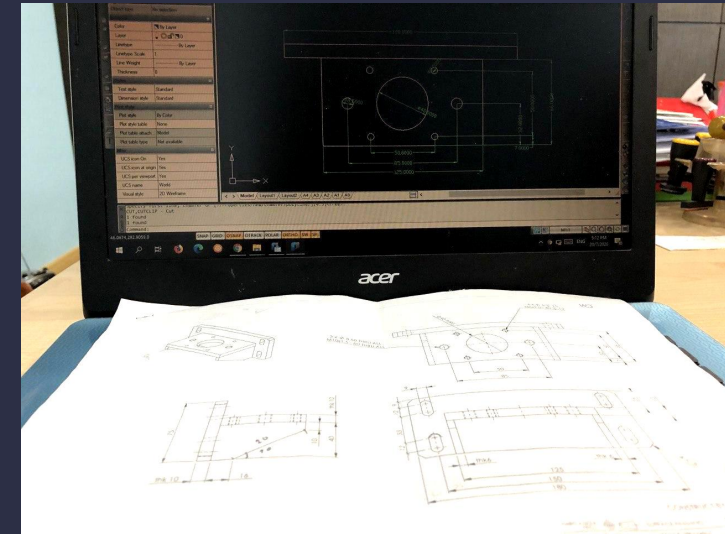
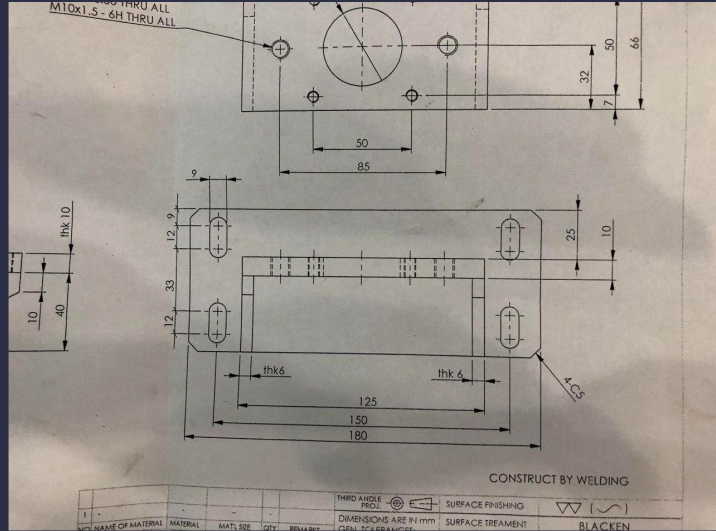
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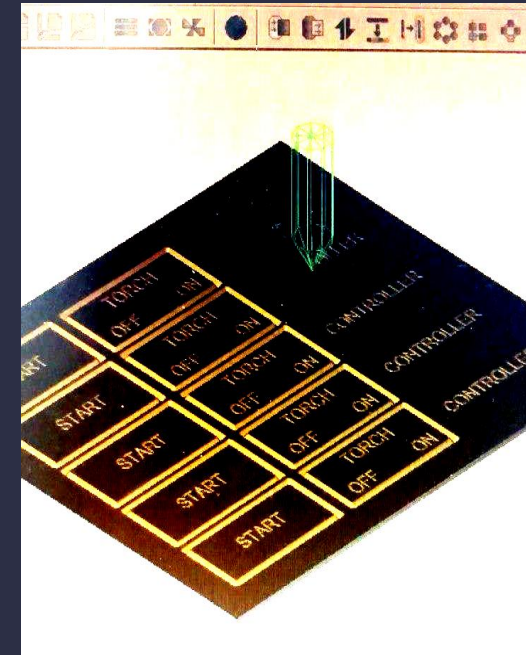
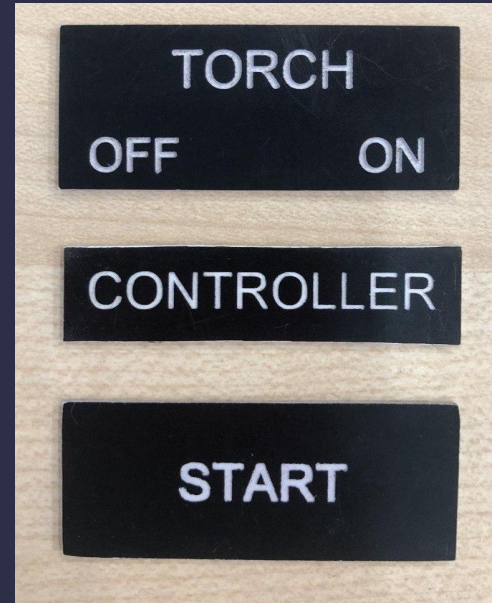
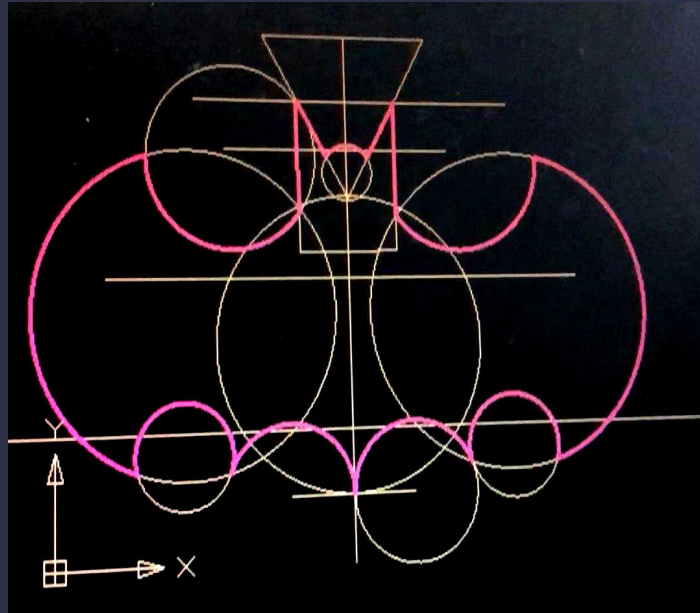
ACHIEVEMENT

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Week 1 (19-07-2020 to 25-07-2020)





A few activities during week 1.

Week 2 (26-07-2020 to 01-08-2020)

JPN LM03

KERAJAAN MALAYSIA
GOVERNMENT OF MALAYSIA
SJIIL KEMATIAN
DEATH CERTIFICATE

000419-01-2511

No. Daftar: J 561382

AKTA PENDAFTARAN KELAHIRAN DAN KEMATIAN 1957
Births and Deaths Registration Act 1957

Kawasan Pendaftaran
Registration Area
MALAYSIA BARAT

Pusat Pendaftaran
Registration Centre
JPN DAERAH BATU PAHAT

SIMATI / DECEASED

Nama Penuh / Full Name
MUHAMMAD SYAFIQ BIN ZA'BA

No. Kad Pengenalan / Identity Card No. **000419-01-2511** Umur / Age **20** TAHUN / Years / Old **TAHUN** Jantina / Sex **LELAKI**

Jenis dan No. Dokumen Pengenalan Lain / Types and No. of Other Identity Document
Maklumat Tidak Berkenaan

Tarikh dan Waktu Kematian / Date and Time of Death
28HB. JULAI 2020 02:36 PM

Keturunan / Race **MELAYU** Tempat Kematian / Place of Death
HOSPITAL SULTANAH AMINAH JOHOR EAHRU JOHOR

Alamat Terakhir / Last Address
POS 304 PEKAN BARU PARTI YUSOF 83600 SEMERAH JOHOR

SEBAB DAN PENGESAH SEBAB KEMATIAN / CAUSE AND CERTIFIER OF THE CAUSE OF DEATH

Sebab Kematian / Cause of Death
SEPSIS

Nama Pengesah / Name of Certifier
CAROLINE ONG

No. Kad Pengenalan / Identity Card No. **820408-08-6316** Jenis dan No. Dokumen Pengenalan Lain / Types and No. of Other Identity Document
Maklumat Tidak Berkenaan

PEMAKLUM / INFORMANT

Nama / Name
ZA'BA BIN AHMAD

No. Kad Pengenalan / Identity Card No. **731022-01-5027** Jenis dan No. Dokumen Pengenalan Lain / Types and No. of Other Identity Document
Maklumat Tidak Berkenaan

Tarikh Pendaftaran / Date of Registration
28HB. JULAI 2020

Disahkan bahawa maklumat di atas adalah seperti yang dicatat dalam Daftar Kematian.
Certified as a true extract from the Register of Deaths.

PENDAFTAR BESAR
KELAHIRAN & KEMATIAN MALAYSIA
REGISTRAR GENERAL
BIRTHS & DEATHS MALAYSIA

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DAFTAR KEMATIAN
REGISTER OF DEATH

AKTA PENDAFTARAN KELAHIRAN DAN KEMATIAN 1957
Kaedah-kaedah Pendaftaran Kelahiran dan Kematian 2019 (Seksyen 18, Subkaedah 6(1))
Births and Deaths Registration Act 1957
Births and Deaths Registration Rules 2019 (Section 18, Subrule 6(1))

No. Siri: 1419103

TUJUAN DAFTAR / PURPOSE OF REGISTRATION
 Kematian / Death Pengubatan Anggota Badan / Burial of Limbs Kelahiran Mati / Stillbirth Lain-lain / Other

A. MAKLUMAT SI MATI / PEMILIK ANGGOTA BADAN / INFORMATION OF DECEASED / OWNER OF LIMBS

1. Nama Penuh / Full Name
MUHAMMAD SYAFIQ BIN ZA'BA

2. No. Dokumen Pengenalan / Identification Document No.
000419012511

3. Jenis Dokumen Pengeluar / Negara Pengeluar / Type of Identification / Issuing Country
MYKAD MALAYSIA

4. Umur / Age
20 5. Jantina / Sex
 Lelaki / Male Perempuan / Female Bayi / Infant

6. Keturunan / Race
Melayu

7. Warganegara / Citizenship
Malaysia

8. Alamat Terakhir / Last Address
POS 304 PEKAN BARU PARTI YUSOF 83600 SEMERAH JOHOR

9. Agama / Religion
Islam

10. Tempat Kematian / Place of Death
HOSP

11. Tarikh Kematian / Date of Death
28/07/2020

12. Tarikh Lahir / Date of Birth
19/07/2000 13. Negeri Kematian / State of Death
JKR

14. Waktu Kematian / Time of Death
02:36

15. Sebab Kematian / Cause of Death
SEPSIS

16. Tempat Kutipan Sijil Kematian / Place of Death Certificate Collection

B. MAKLUMAT PEMBERITAHU / INFORMATION OF THE INFORMANT

17. Nama Penuh / Full Name
ZA'BA BIN AHMAD

18. No. Dokumen Pengenalan / Identification Document No.
820408086316

19. Jenis Dokumen Pengeluar / Negara Pengeluar / Type of Identification / Issuing Country
MYKAD

20. Hubungan dengan si mati / Relationship with the deceased
AYAH 21. Pekerjaan / Occupation

22. No. Telefon / Phone No.
01977672016

23. Alamat / Address
KOTA TAMBUK PARTI KESEKEL MUDA BAGAN SERI BAHU PARTI DEPAH

Saya menubuhkan akan bahawa segala maklumat yang diberikan adalah benar dan betul.
I hereby declare that all the information given is true and correct.

(Tandatangan / Cap Ibu Jari / Signature / Thumb Print)

C. MAKLUMAT PEKAWAI YANG MENGELOKARAKAN PERMIT MENGUBUR / PENGESAH KEMATIAN / INFORMATION OF OFFICERS WHO ISSUING BURIAL PERMITS / DEATH VERIFICATION

24. Tarikh Pendaftaran / Date of Registration
28/07/2020

25. No. Dokumen Pengenalan / Identification Document No.
820408086316

26. Jenis Dokumen Pengeluar / Negara Pengeluar / Type of Identification / Issuing Country
KUJ PERKEDARA

27. Pekerjaan / Occupation
DEKAT

Saya mengesahkan butiran-butiran di ruangan A dan C adalah benar dan betul.
I hereby certify that all the details in sections A and C are true and correct.

(Tandatangan / Cap Ibu Jari / Signature / Thumb Print)
CAROLINE ONG
No. Pendaftaran / Registration No. **1419103**
Tandatangan / Signature
PENGASAH PENDAFTAR BESAR / REGISTRAR GENERAL

UNTUK KEGUNAAN JABATAN PENDAFTARAN NEGERA / FOR NATIONAL REGISTRATION DEPARTMENT USE

Kad Pengenalan / Sijil Kelahiran atau Sijil Kematian / Identity Card / Birth Certificate of deceased is surrendered Ya / Yes Tidak / No

D. PENGESAHAN PENDAFTAR / VERIFICATION BY REGISTRAR

Dengan ini, saya mengesahkan maklumat kematian di atas.
I hereby certify the information of death as above.

(Nama, Tandatangan dan Cap Pendaftaran) / (Name, Signature and Official Seal of Registrar)
Tarikh / Date:

E. KEPUTUSAN PENDAFTAR BESAR / PENGASAH PENDAFTAR / DECISION BY REGISTRAR GENERAL / SUPERINTENDENT REGISTRAR

(Nama, Tandatangan dan Cap Pendaftaran Besar / Pengasah Pendaftaran) / (Name, Signature and Official Seal of Registrar General / Superintendent Registrar)
Tarikh / Date:

Salinan Pemanluman

Peringatan: Dokumen ini tidak dikitar sebagai Sijil Kematian

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A death certificate as a proven of my leave for a week

Week 3 (02-08-2020 to 08-08-2020)



Groove a plastic type material to enable water to flow.





TASK 1

Product produce based on three simulation which are

1. Profile machining
2. Area clearance
3. 3D corner engraving



Week 4 (09-08-2020 to 15-08-2020)



Second trial for the first task. The result still not good.



Week 5 (16-08-2020 to 22-08-2020)



The final trial and the result is quite satisfy.





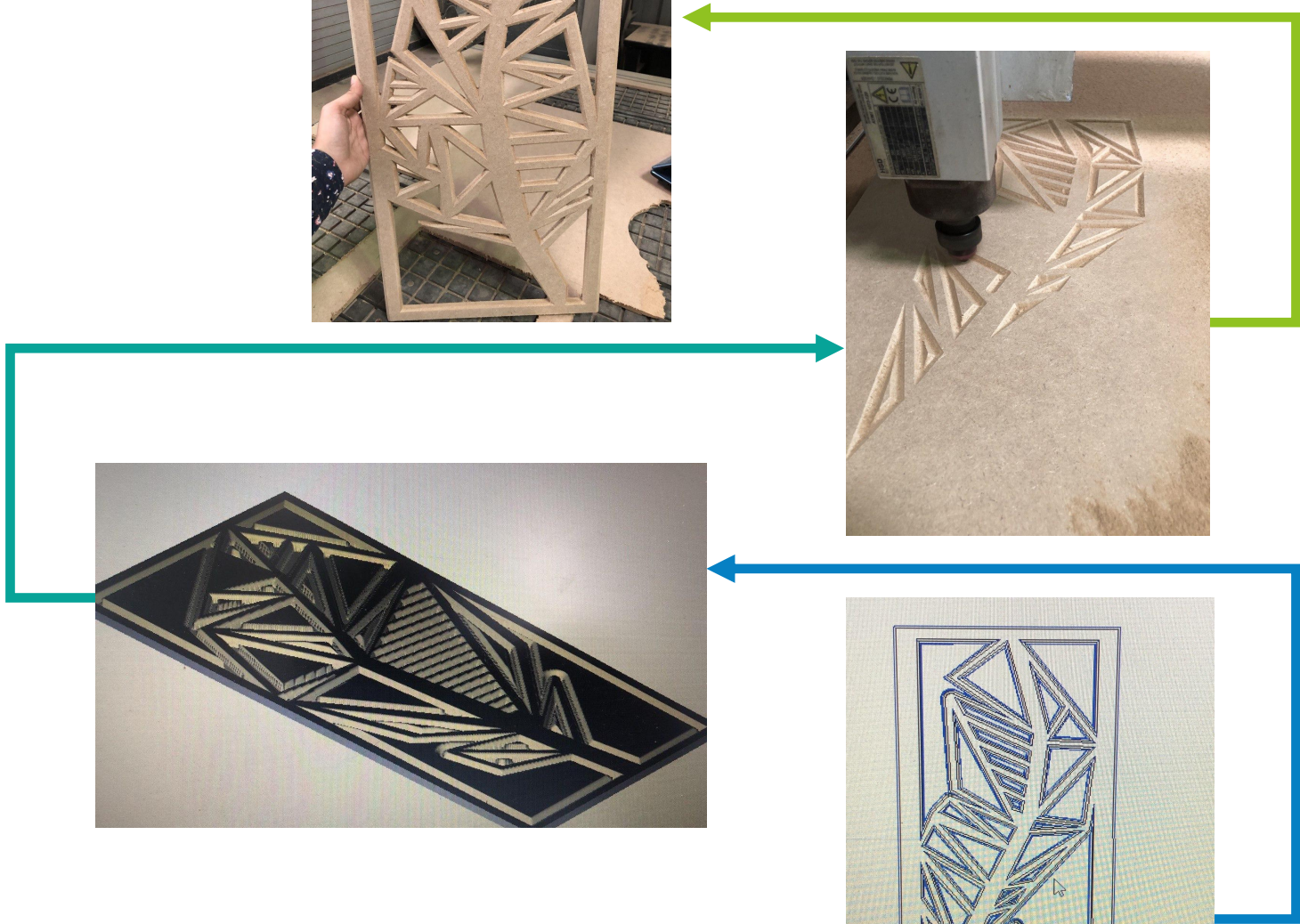
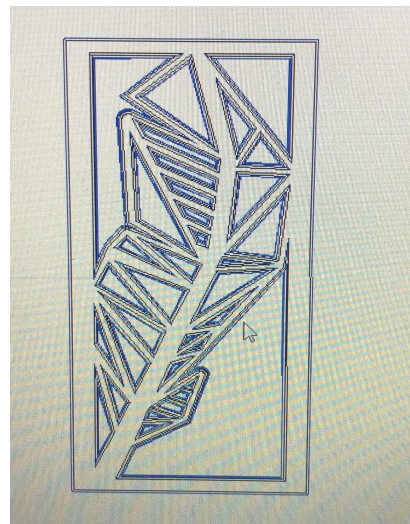
TASK 2

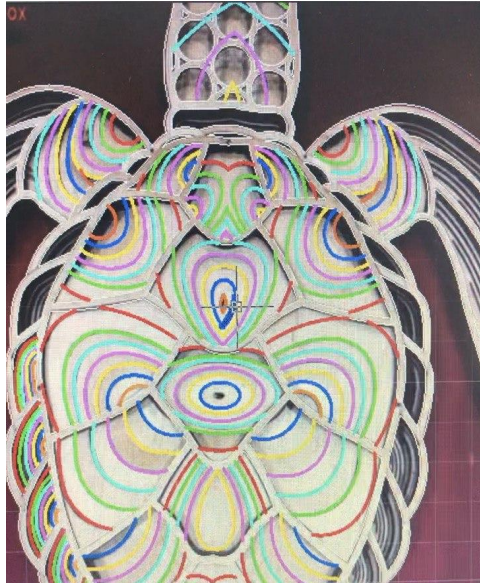
Company's project for the client :

1. Leaf
2. 2 types of grill panel
3. 2 types of signage
4. Turtle using technique layering
5. Sofa

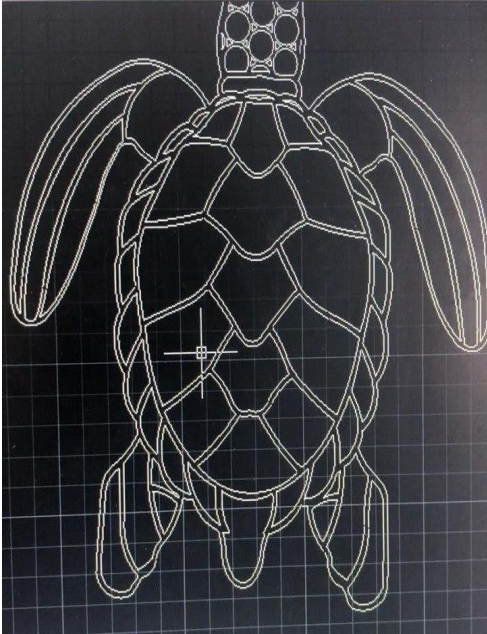


Week 6 (23-08-2020 to 29-08-2020)





1.



2.



4.



3.



Week 7 (30-08-2020 to 05-09-2020)

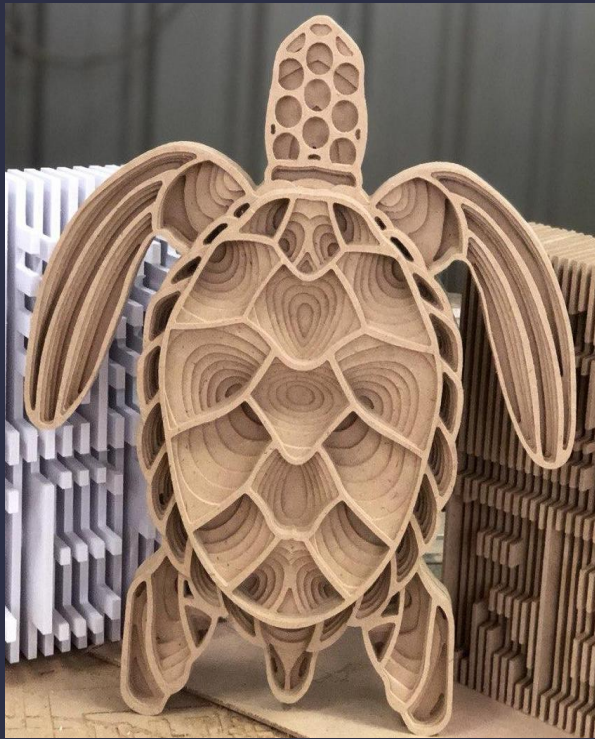


Result after combine all layer before glue.



The second panel grill while machine is still running.

Week 8 (06-08-2020 to 12-09-2020)



Overall product produced.



TASK 3/FINAL PROJECT

Brainstorming ideas to produce product available
for fabrication process

Week 9 (13-09-2020 to 19-09-2020)



The ideas getting from searching through google and another sources.



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1. Become more confident and always work with patient. It happened after week 2. I find my own strength and work harder to strive for a better result.

2. Having a good working attitude which i always listen to the advices and obey the company's rule. Never been doing something bad and never wasting time on watching dramas or movies especially in the office.



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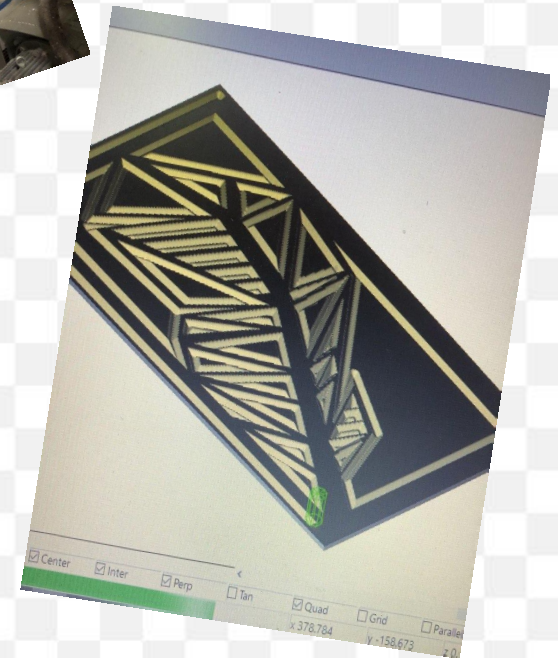
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- Time management (punctuality)
I never been late to the work, which mean before 8 am i already arrived and during lunch hour, before 1pm already at company.
- Way to suit myself in the working environment.
Get real working experience.
(working extra hour in week 7)
friday until 6.30 pm and saturday until 3 pm
- Improve skill in hands on while attending and handling CNC machine.
- Gain knowledge in using various software
(Autocad/Nanocad/Ucancam/Solidwork)





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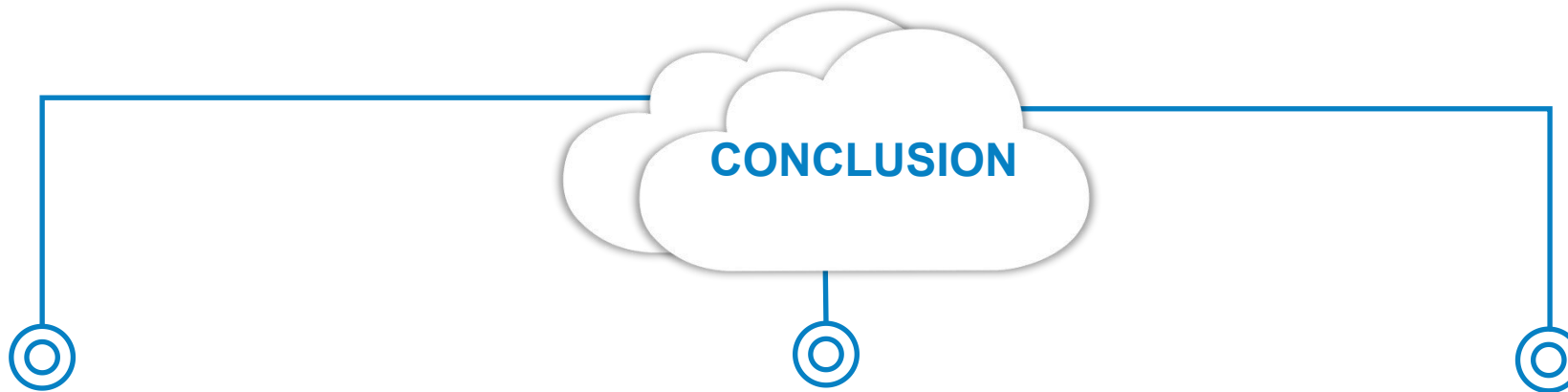
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I think this company is the best out of all company that provide internship placement

This is because they not only provide real working experience, but also provide practical working. They give me handle machine by my own. Just imagine, in 1 weeks i can handle machine without the guide from the staff here.

In addition, i was not only get knowledge about the machine but also those software

Everyday is my practice day as it improve my skills in design.

The working environment here is very nice especially in the office.

Both the female manager is so kind. They are friendly enough. Not forget all the staff below, they are so kind, always greet everytime we met.



INDUSTRY

Thank You