Hello everyones...

This time I created a basic & simple 'Glow K3D 2.0 Logo in Glowing Hexagonal Case'.

I used my 'basics' knowledge about sketching, designs, electronic circuits, cutting & glue.

Only 6 main steps I did for realisation this project :

- 1^{st} , I made some coffee (as usually i did o) and I'd permitted to the founder of my community 'Kampoeng 3D (K3D 2.0)' to use the logo in this project.
- 2nd, I sketching the design then prepare the measure, proportion & composition in 3ds max.
- 3rd, I prepare the tools and materials that what i need. I used my old tools & waste materials from my last projects.
- 4th, Then I cutting the acrylic board with following the design.
- 5th, Assembling all of parts and setup the lighting.
- 6th, DONE and make some coffee again ☺

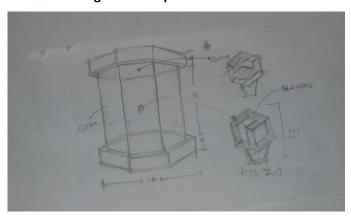
And here are some details of this project and documentation

1st ... Coffee of course



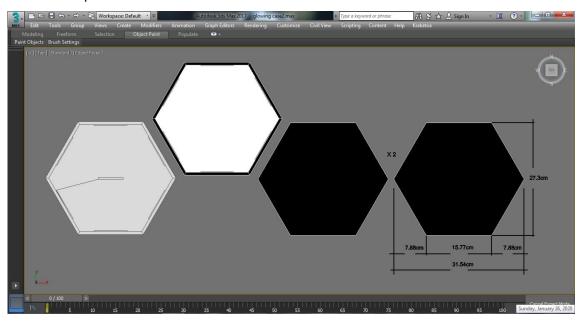
and I'm sorry about detail permitted to the founder of K3D 2.0 I cannot exposed in here but I can share the community in https://www.facebook.com/groups/kampoeng3dcommunity/ ...

2nd ... Sketching the concept



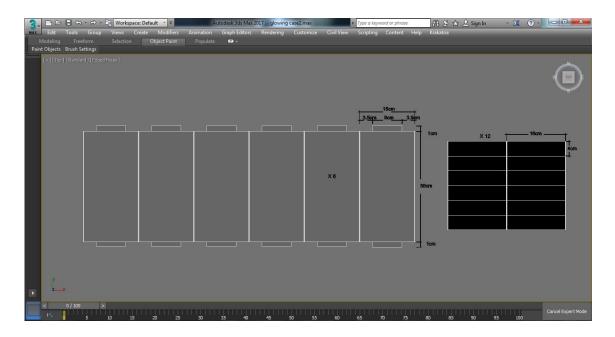
Making the details in 3ds Max

1. Pieces for Top and Bottom

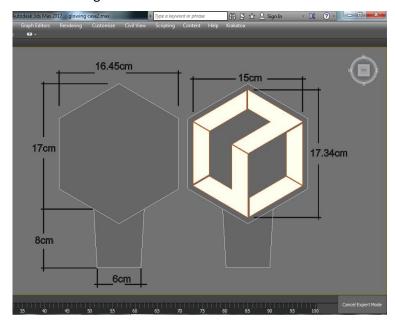


2. Pieces for side

*Correction, in progressed, parts of 16cmx4cm (12x) I replaced with 96cmx4cm (2x) and I bended it with Electric Hair Straightener



3. Pieces For Logo



More less this is stuff what I want to create ©



Done in 3Ds Max , Render in Corona

3rd Preparing the tools and materials



Tools are:

- 1. Calculator
- 2. Elbow Ruler
- 3. Ruler
- 4. Pencil
- 5. File/Needle
- 6. Acrylic board Cutter Knife
- 7. Cutter Knife
- 8. Screw driver
- 9. Pliers
- 10. Electric Hair Straightener
- 11. Iron Solder & tin wires
- 12. Electric Hand Drill and 2mm drill bit
- 13. Sandpapers grid 80 & 240
- 14. Spray Paint, colour White

Additional tools:



- 1. Mini Circle Saw (DC 12V)
- 2. Electric Hair Dryer

All materials are waste materials from my personal projects :

- 1. Clear and Milk Acrylic board 2mm for Hexagonal Case and 5mm for Logo
- 2. Acrylic glue (Cyanoacrylate Adhesive)
- 3. LED strip, color Warm White and White
- 4. LED Power Supply 3A with plugs
- 5. Jumper Cables (small and Lite Cables)
- 6. Alumunium plate
- 7. Electrical Tape (colour black) and 3M Double Tape (colour grey)
- 8. Some pieces of ½ inch Screw
- 9. Wax Paste

4th Cutting all acrylic board,

I drawed all parts on Acrylic board with references design in my 3dsmax file then I cutting it, I used Acrylic board Cutter Knife for straight and long measure, for small parts and rectangle holes I used Mini Circle Saw

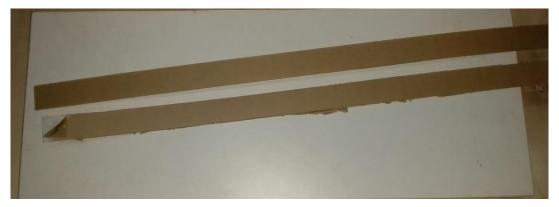
1. Pieces for Top and Bottom , 2 for top and 2 other for bottom



2. Pieces for side



*Correction parts 96cm x 4 cm (2x)



5th Assembling all parts

After I cut it then all I have to assembly all of parts and of course some parts need to be adjusted because every parts of this I only used manual system, I'm not using CNC machine, ScrollSaw machine or Bandsaw machine, why I didn't used all of that device? ... because ... I didn't have all of that :D. I used file/needle, cutter knife and sandpaper to remove parts that does not fit.

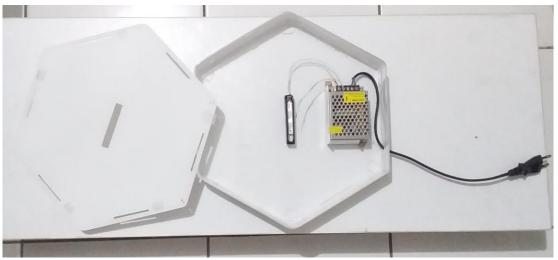
To created top and bottom parts, I bended part 96cmx4cm used hair straightener with following the base of 1 top & 1 bottom parts, then glue it, others of that parts will be on screwing system. Smoothing with sandpaper, cleaning up and then paint it with spray paint.

For the logo, I made scrathing all the line looks like the design, smoothing all sides with sandpaper

Setting up the lite (glow) system

I positioning the power supply at bottom part and made 2 hole at the cover at back side for jumper cables that will supply power the top LED.

I place the Warm White LED at the middle of this bottom part.



I'm sorry I forgot to put the power switch ©.

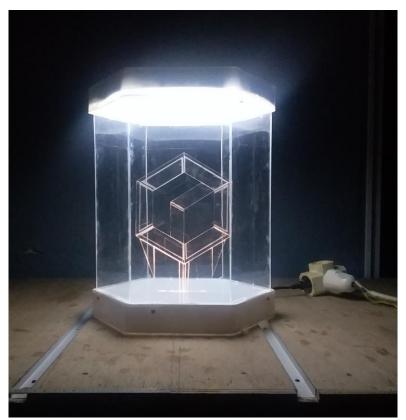
At top parts,I used alumunium plate for reflector then I put the white LED strip around at inside with 3M double tape and covering the rests with electrical tape.







6th DONE ...



Done in 7 days

Just for fun, I'd played with matte shadow in corona render to comparing the designed and product $\ensuremath{\mathfrak{G}}$



Note:

- 1. The Logo does not glow maximal because I used wasted material and there is a gap between connection part that touch the light with part of the logo. So the light will not lite maximal. Use full board to make something like this.
- 2. For the best and precision cutting will be better if I used CNC Machine

Thank u everyone for reading my project... Bye..see ya in my next project ☺