Light up sign

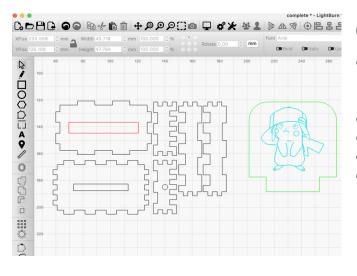


duration: 30 - 60 minutes age: from 7 years

Make an acrylic sign that lights up.

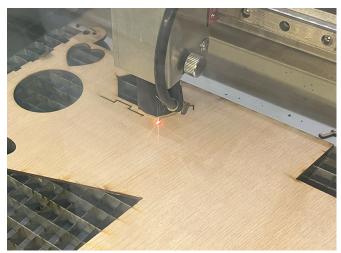
undefined

tools	materials
☐ Laser cutter	☐ Wood glue
☐ Soldering iron	Solder
☐ cotton-tips or small paint brush	☐ LED strip
☐ Computer with laser cut software installed (Lightburn in my/sase) ble	
☐ Hot glue gun	☐ 3mm plywood
	☐ 5mm acrylic sheet
 □ Laser cutter □ Soldering iron □ cotton-tips or small paint brush □ Computer with laser cut software installed (Lightburn 	Solder Solder LED strip in my 1/26265 e≱ble 3mm plywood



Prepare the design

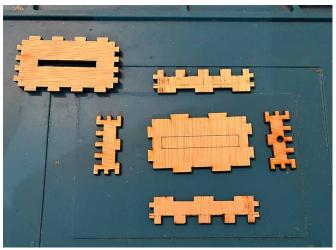
- Find or create a design you like. A high quality black and white image with not too many details works best.
- Open the attached template in Lightburn.
- Drag your own design into the template.
- Trace your design
- Scale and place your design into the template.

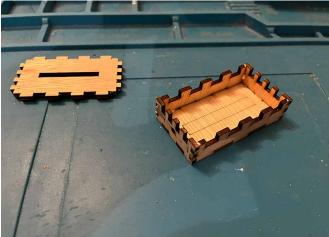




2 Cut out the design

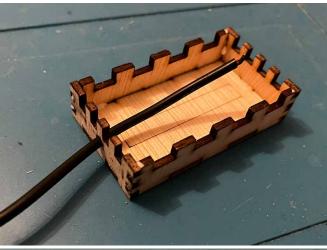
- For the cleanest cut: if your acrylic has a protective film, remove the film after cutting.
- Cut out the wood design using the lasercutter.
- Cut and engrave the acrylic with the design.

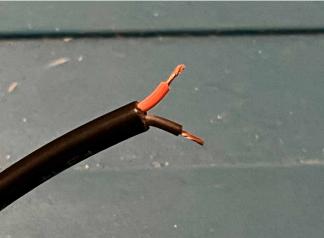




3 Assembly

- Use the cotton tip or brush to put some wood glue on the wood.
- Assemble the bottom and the sides of the stand.
 Make sure that the engraved square is on the inside
- Do NOT glue the top, we still need to get inside.





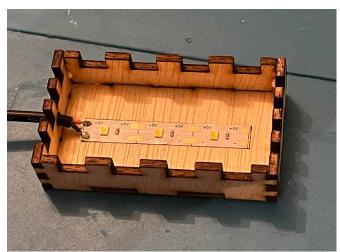


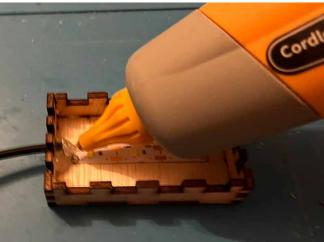


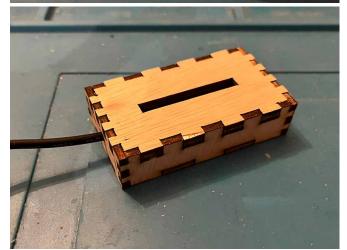


Solder the led strip

- When cutting LED strips, make sure to only cut at the marked spots.
- Cut a piece of the ledstrip. You will need 3 LED's.
- Feed the cable trough the hole in the side of the hox
- Cut and strip the USB cable. You will need the red and black wire.
- Solder the red wire to the + , and the black to the of the LED strip.
- Solder the red wire to the + , and the black to the of the LED strip., and stick the strip to the marked
 spot inside the box
- Test the lights.







5 Place the LED strip

- Your LED strip might have adhesive on the back.
 Use this, or some hot glue, to attach your LED strip inside the engraved rectangle.
- Use the hot glue gun to attach the cable to the box.
- Glue the top of the stand on.



6 Finish it up

Place the acrylic piece into the box and admire your work!