TECHOLOGY	Laser Cutting
MODEL / BRAND	Trotec Speedy 100R
WEB PAGE	https://www.troteclaser.com/static/pdf/speedy-100/Datasheet-Speedy-100C-8063-en.pdf
MATERIALS	cuts acrylic, carboard, paper, textiles engraves glass, stone
WORKING AREA	610 x 305 mm (24 x 12 inch)

TECHNICAL CONSIDERATIONS

Lens	2.0 inch
InPack Technology™	Protects working head and all moving parts from dust
Exhaust	For entire working area
Software	JobControl® Expert
Operating console	Keypad, safety switch, system turnkey, PC and Monitor not included
Laser Pointer	635 nm, <0.5 mW
Autofocus	Light bar sensor and software
Work area light	LED
Laser system	Sealed-off CO2 laser, maintenance free, air cooled, wavelength 10.6 µm
Laser power	30, 45 and 60 W

PICTURE

REF 1

wikifactory.com

Make Your Pod | Overview

Pod is an open source stool. The stool is currently developed for manufacturing from laser cutting. Other developments are in progress to allow its manufacture from other machines such as milling machines.

REF 2

projects.fablabs.io

Construire une catapulte | Overview

Fabriquez une catapulte et découvrez le processus pour lancer la découpe laser d'un fichier déjà prêt. Concept: Obuq (designer - Ivo Rodrigues) CC-BYApprentissages : lancement de fichier, Job Control, démarrage de la machine, paramètres de découpe, focu...

REF 3

wikifactory.com

Magic Box | Overview

Learn the alphabet by playing!The project consists in the creation of a cube, a sort of dice, made up of laser-cut wooden boards on which are engraved letters.The goal is to create a very simple and economic game designed specifically for the African co...

TEST

Linnea

LICENSE NAME: License for education and infromation application for smartphones

CAN

- use the software for educational purposes but non commercial
- Free software to the public domain

MUST

- acknowlendge organisation ownership
- use of company logos etc

CANNOT

- copy trademark name
- use it for commercial purposes

ECONOMIC IMPACT ON

MYSELF
no financial gain

THE USER
free to use

THE COMMUNITY
free to use and spread

SOCIETY
free to use and spread

KNOWLEDGE ADVANCEMENT

MYSELF
User data collection

THE USER
Educational advancement

THE COMMUNITY
Increased topic awareness

SOCIETY
Increased topic awareness

HUMAN IMPACT

MYSELF
purposeful tool creation

THE USER
Improved consumer habits

THE COMMUNITY
Improved consumer habits

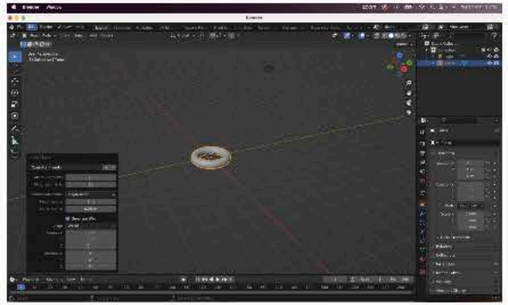
SOCIETY
Improved consumer habits

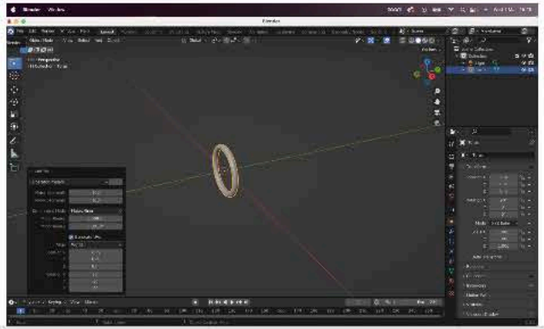
ECOLOGICAL IMPACT

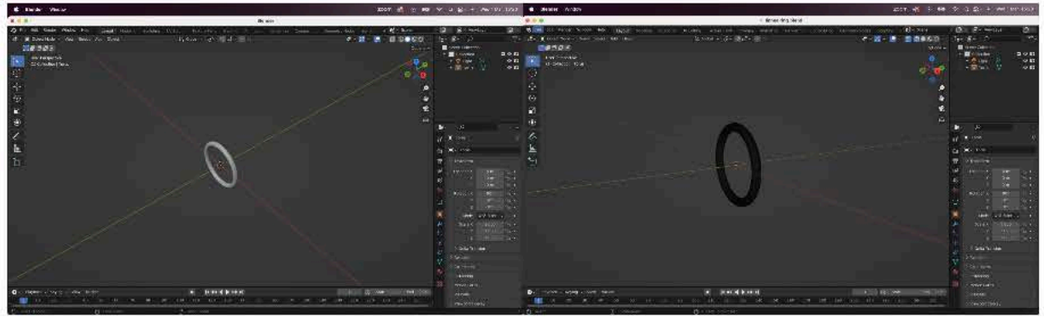
Decreased negative planetaria and humanitarian impact due to users increased awareness and learning from the software

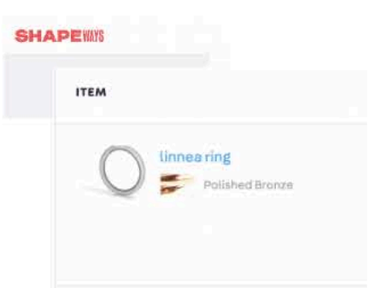
Linnea

Created a simple ring from a Torus mesh, with specific ring size, increased major and minor segments to make it better quality when printing. Ordered it to be printed on Shapeways, so will add photos when it arrives



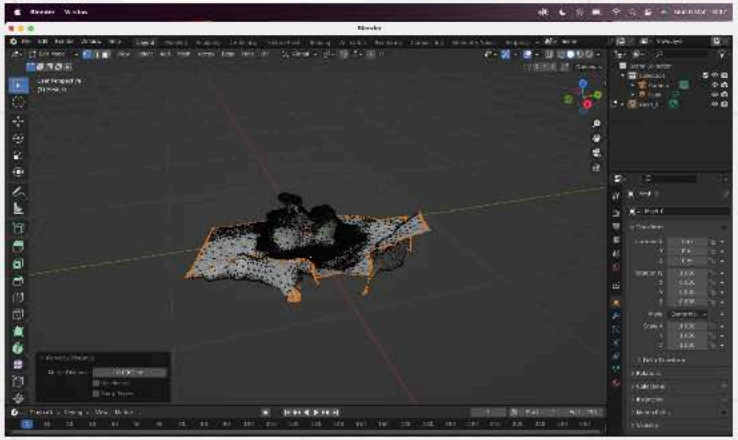


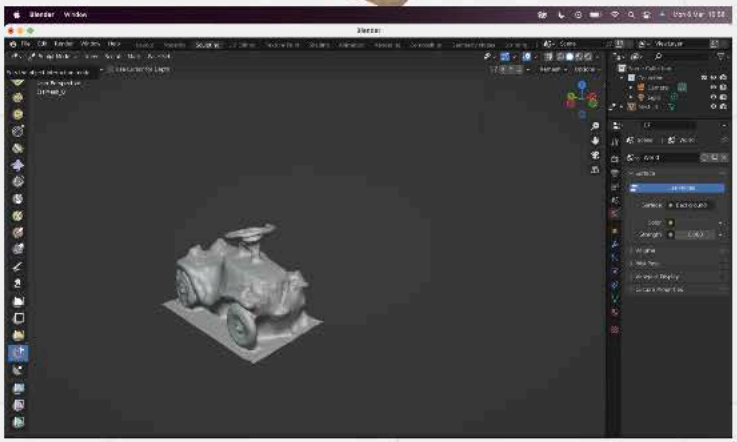




Linnea

First I played around in Polycam, doing a 3d scan of one side of my apartment
Then scanned a toy car and imported into Blender, cleaned up the edges and merged meshes and exported as an Stl.





Linnea

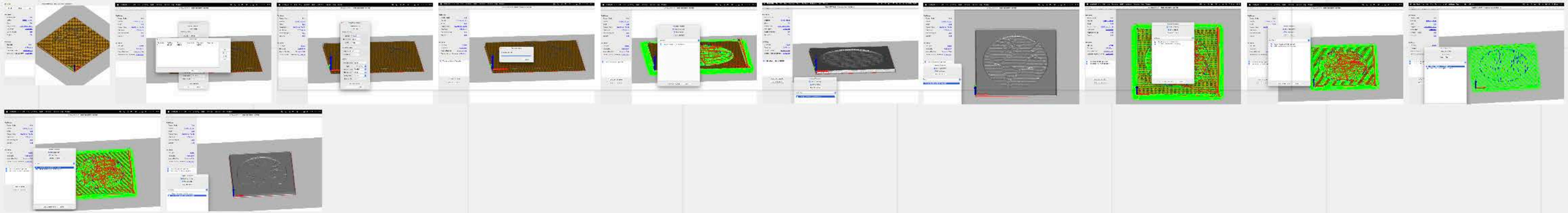
-My previous 3D model of a ring was so small to manage easy and also got recommended for a first timer to choose an objet that at least has one flat surface.

-Downloaded this 3D model from the internet, its like a cupholder for a table with planet earth details. I wanted to print it in an Acrylic plastic (sorry environment)

-I choose to use a ball millfor tool, thought it would give enough details.

-Started to create a roughing toolpath first, estimated to take 255 min. With feedrate of 600.

-Then created my finishing toolpath, this time increasing the feedrate to 800 (thought that would be safe cause most of the material is already gone, this estimated to take 58 minutes to finish.



Linnea

Started building the app in an app template logo maker. Too early to say if I need further coding as I go along. I believe Ill be fine using a template software cause majority of the UX wireframe is factual data input. Will see how we go as I further develop.