

Easing Phone Transitions

Final Proposal Digital Fabrication

Last month, I moved
from an iPhone to
the Lightphone 2.

This is a hard
transition!

The Lightphone 2
has to be easy to
use to avoid excuses
to go back



It isn't, though.

The case I currently have
affords awkward handling and
the size of the phone inhibits
one hand use.

I want to design and
fabricate a better
case.



Mission Tank // Kelly Capris

Bill of Materials

Wood PLA

Creality CR-PLA WOOD, 1.75mm diameter, 1KG

Rhino - CAD application software

Version 8.1

Laser Engraver Access

CR-Falcon 10W Diode Laser Cutter and Engraver

3D Printer Access

Ender 3 S1 Pro

Linen Strapping + clips/buckles-Pickup

To create a strap on the back: Pickup by 5/19

Steel Nozzle .5mm or .6mm

To work with the Wood PLA

Stain - Pickup by 5/17

To work with the Wood PLA

Back up materials: Leather and Tools

Task List

Take measurements

Using our digital calipers, capture all dimensions of the phone and verify online with manufacturer details

Create the model

Using Rhino, create a model for the casing. Use Grasshopper for easy adjustments if needed

Print

Might need several prints with iterations. Check for perfect fit!

Stain!

Generate Designs

Create a design for the casing

Engrave

Using the laser engraver, engrave the design onto the case!

Wednesday, May 15th

Thursday, May 29th

Friday, May 29th

Saturday, May 29th

Sunday, May 29th

Monday, May 29th

Tuesday, May 29th

Wednesday, May 29th

CLASS

Verify
Measurements

Start Model in
Rhino

Finish Modelling

Obtain Stain

Start Printing

Finish Printing

Stain

Finish
Engraving
design

Start Engraving

Set up Final
Documentation
Template

Set up media
files

Finish
Documentation

Try to finish
early!

Tuesday is left
for worst case
schedule issues

CLASS

PRINT FAILS!?
Switch to
backup plan

Turn this into a
wet mold and
casting project!

Create mold
model for the
phone case.

Time is
crunched so
print with PLA
asap

Set up with
leather

All leather
working day

Documentation