# 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



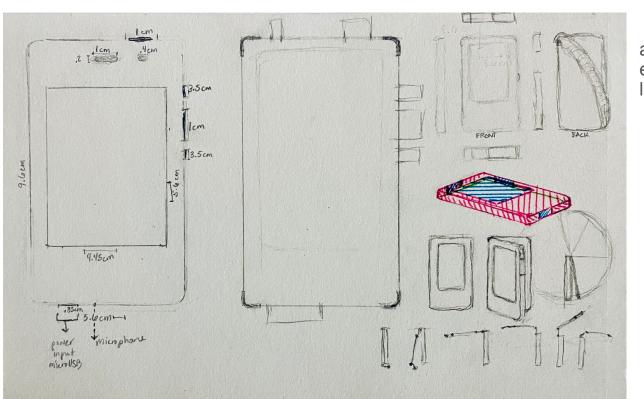


# It isn't, though.

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

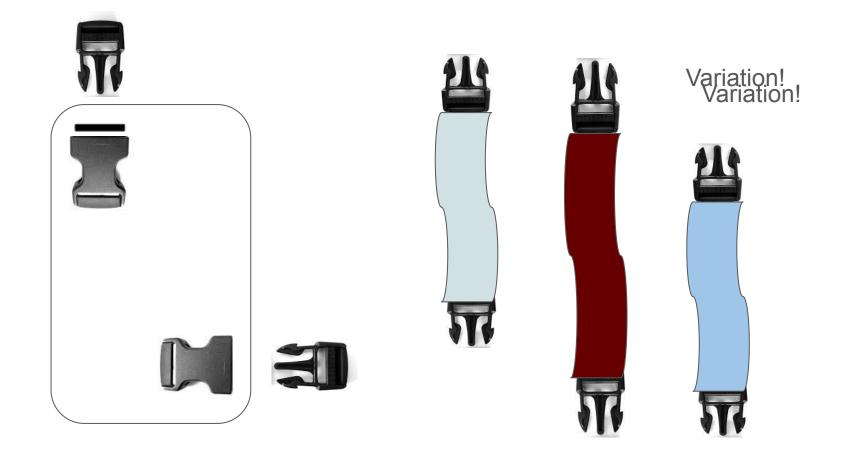


# I want to design and fabricate a better case.



a strap to facilitate easy portrait to landscape switching

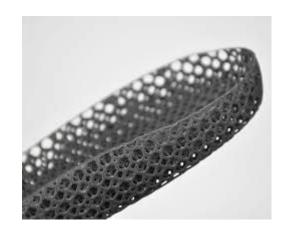
Possible flap/cover configurations



### Fuzzy Edge?



Mesh TPU?



## Bill of Materials



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 V

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 PI A

Back up materials: casting material Stretch: Buckley clips!

## 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 serval 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!

#### Mold & Cast for others if life is happy

Wednesday, M	ay 15th Thursday, May	16th Friday, May 17th	Saturday, May	Sunday, May	nonday, hay	ZOH'N TUESday, May	Wednesday, May 22th
CLASS	Verify Measurements Start Model in Rhino	Start Modelling Obtain Stain Printing iteration	Printing iteration Stain tests Engraving tests	Engraving tests  Set up Final Documentation Template  Set up media files structure	Full first iteration  Ergonomic / handling iterations	More iterations  If life is good: consider mold	CLASS
				PRINT FAILS!? Switch to backup plan Turn this into a cast!	Create mold model for the phone case.	Add clips and bucket as stretch JUST TRY IT	Documentation  Keep iterating!

Wednesday, M	Thursday, May	Friday, May 24th	.n Saturday, May	Sunday, May	Nonday, May	Tuesday, May 2	9th Wednesday, May 29th
CLASS	Iteration  Work on documentation  Rhino mold if life is good	Finish Modelling mold Last wood print	Mold Printing if life is still good Stain Finish Engraving design	Start Engraving  Document document document	Finish Documentation Try to finish early!	Tuesday is left for worst case schedule issues	CLASS