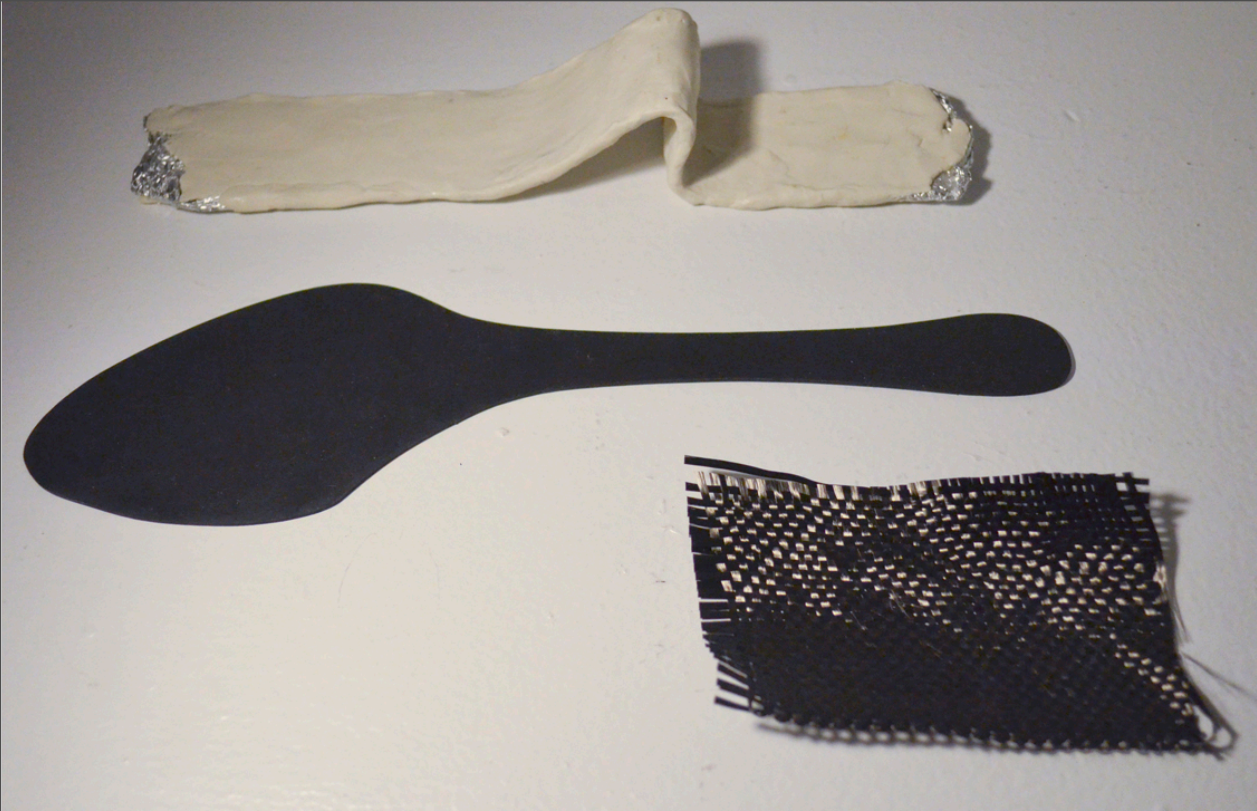




éclat

Xiao Xiao | 5-24-12



Materials

Polymer clay

Rubber

Carbon fiber

Epoxy

Production

Make mold

Lasercut into shape

Reinforce

Attach

Costs

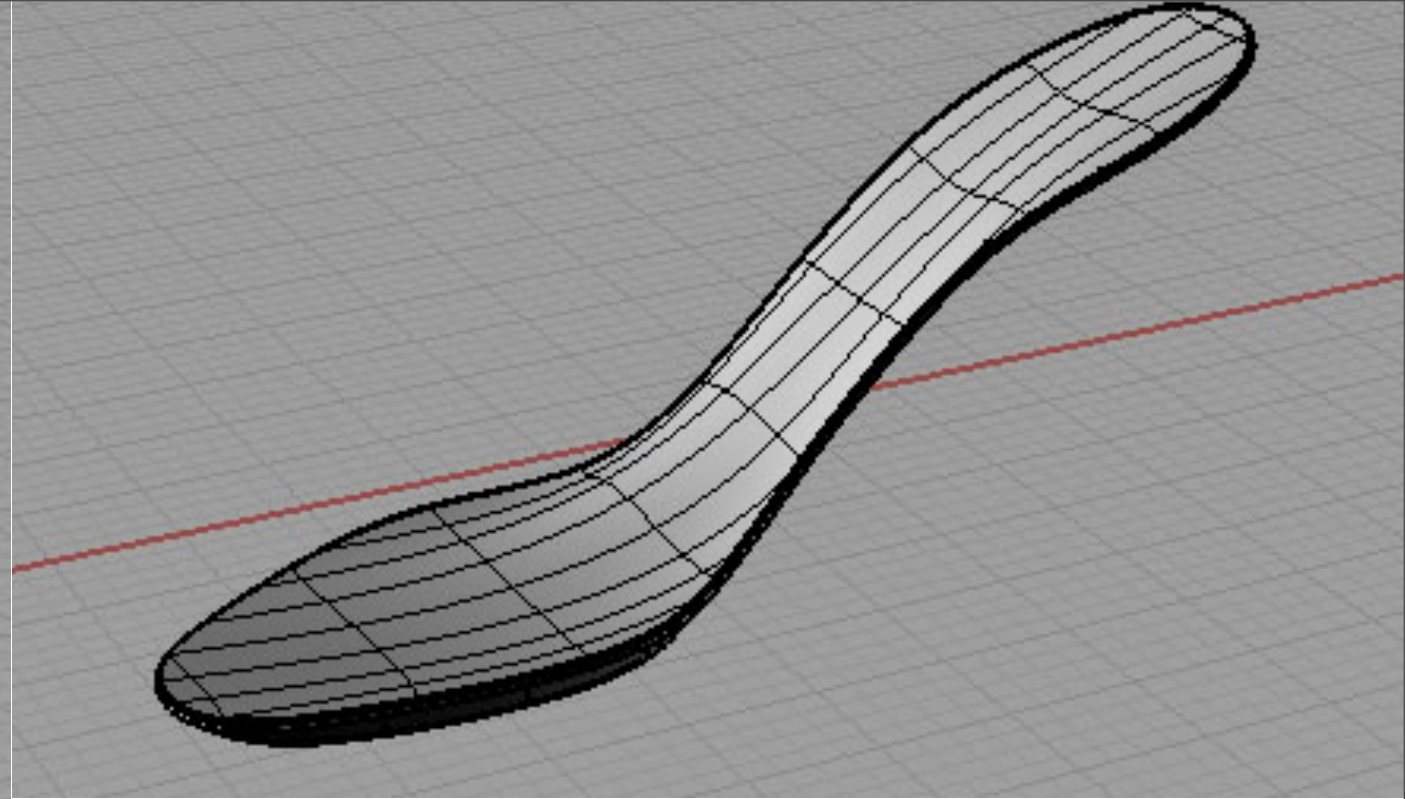
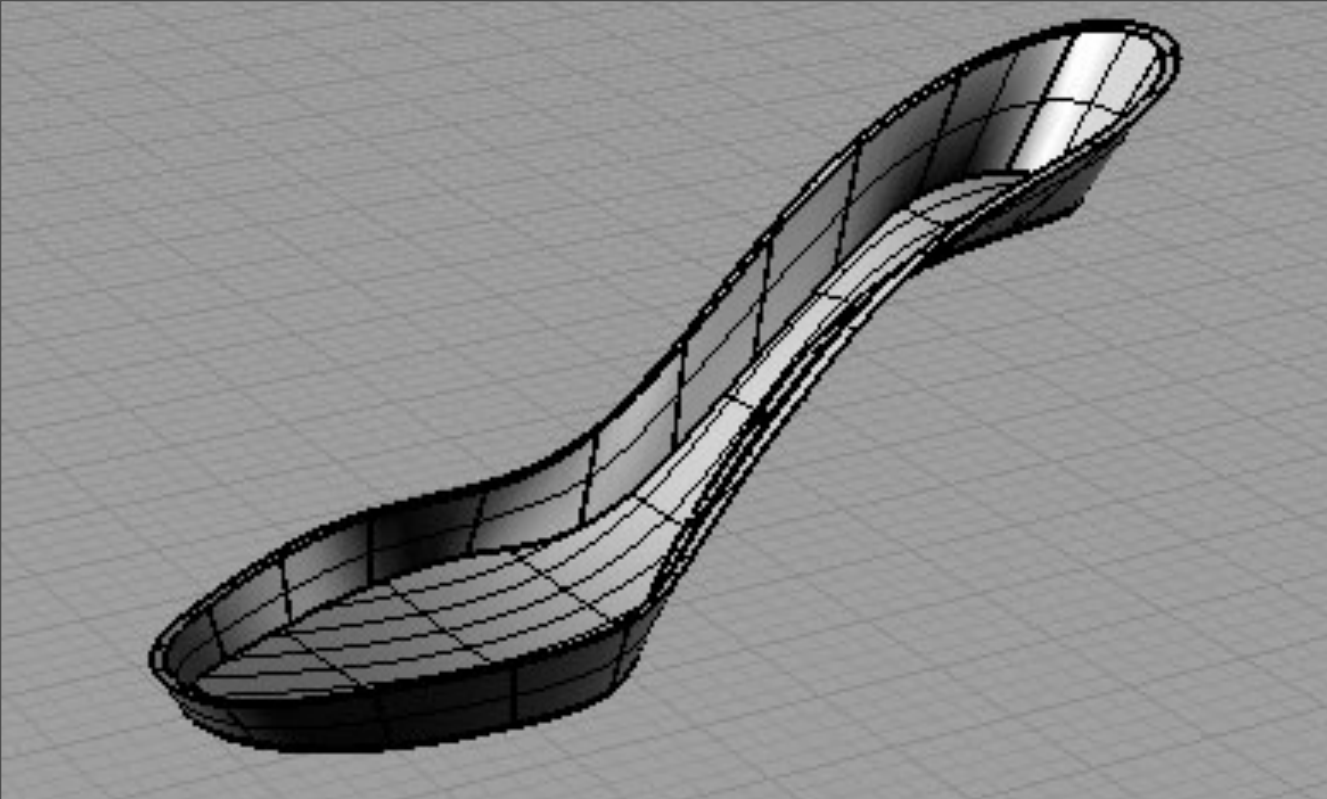
~\$5 (art store)

~\$10 (McMaster)

\$4 (Amazon)

~\$5 (hardware store)

Sole



Materials

Nylon-12

Production

Model in Rhino,
SLS 3d print

Costs

\$101.65
(shipping included)

Body



Materials

Leather

(felt and faux leather in
prototype)

Production

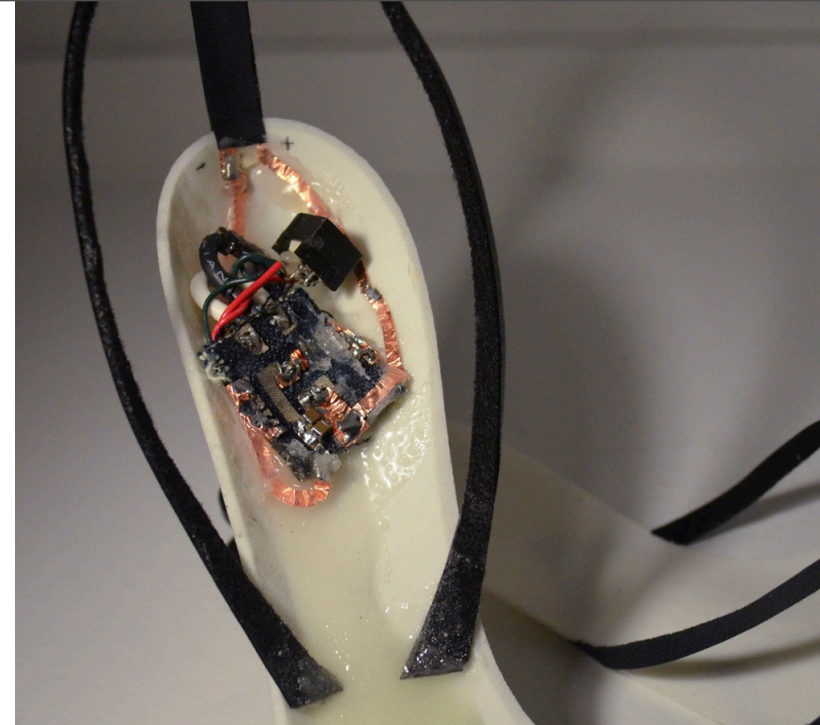
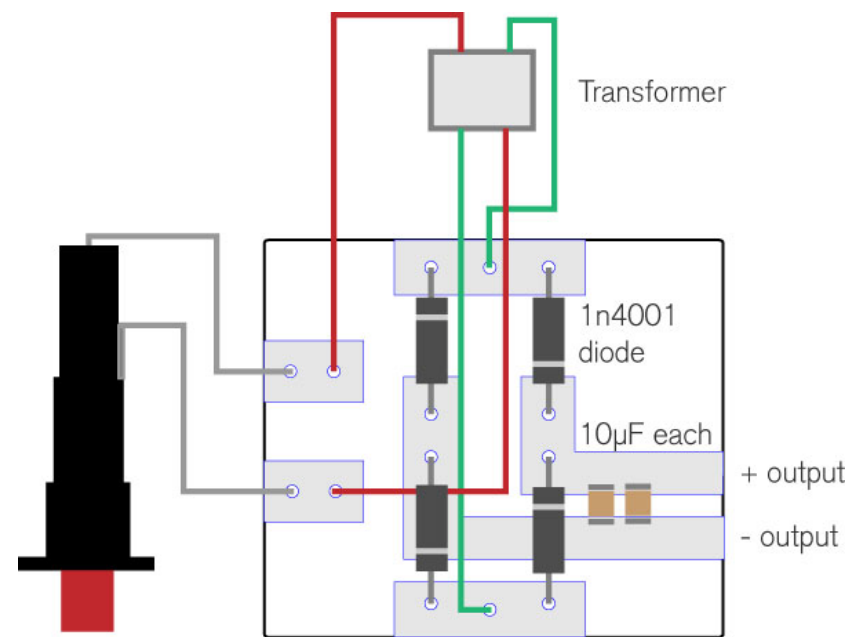
Lasercut

Costs

~\$10

(online or fabric store)

Uppers



* Estimates given for final version of circuit, which include these components not in the prototype shown today

Materials

Production

Costs

Piezo Clicker	–	\$10 (Amazon)
Board*	order PCB	\$33 (Advanced Circuits)
Transformer*	Solder	\$16 (amazing1.com)
1n4001 diodes	//	~\$2 (Digikey)
Capacitors	//	~\$2 (Digikey)

Electronics

For one shoe:

Rubber	\$10
Carbon fiber	\$4
3D Print Model	\$101.65
Leather	\$10
Piezo Clicker	\$10
Board	\$33
Transformer	\$16
Diodes	\$2
Capacitors	\$2

Total: \$188.65

~ \$400/pair

for materials

Cost Analysis

10 business days for receiving orders
1 day (8 hours) for assembly

If I pay myself \$15/hour:

\$120

in assembly costs

Time Analysis



Made to order:

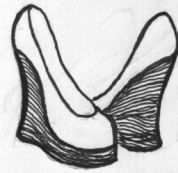
15 day lead time

Cost: \$1350 per pair

~ = material costs * 3 + labor costs

Retail

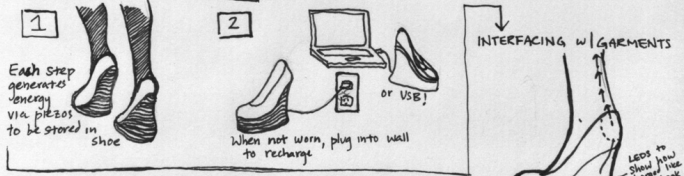
POWER HARVESTING + RECHARGEABLE SHOES for eCOUTURE



MOTIVATION

In my previous attempts at e-fashion, integrating power has been the biggest challenge. Garment have either been prototypes you had to plug in externally or had awkwardly large power packs (like Suicide bomber belt !!)

HOW IT WILL WORK → 2 WAYS TO POWER UP



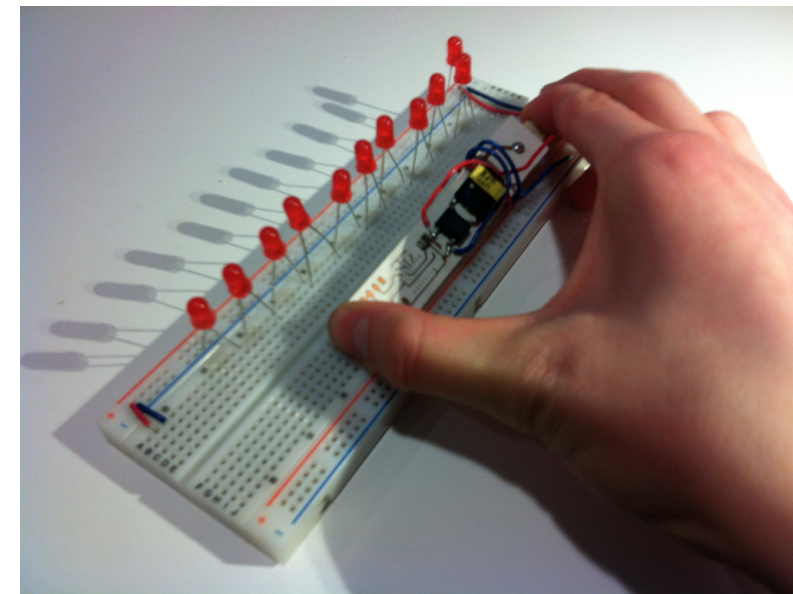
FABRICATION

ELECTRONICS:

→ Study power generating

HOUSING:

→ Design form of heel



Progress