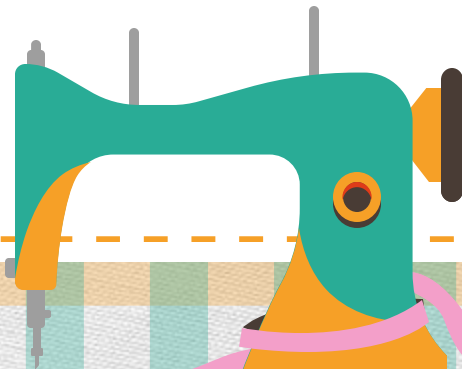


NEEDLE LITTLE SPACE

Evelyn Chiu and Stephen Felce





YOU SEAM-STRESSED.



PRECISION VS. SAFETY

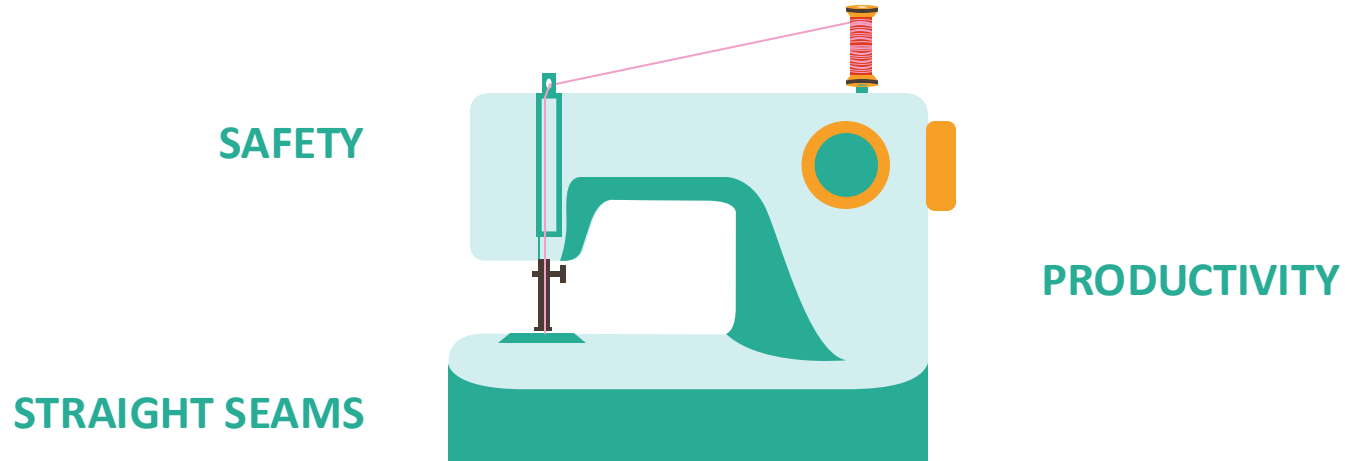
Sewers keep their left hand very close to the machine.

“When I was working on a seam, my finger slipped under the needle and it punctured me a few times. I had to manually lift the crank to get the needle out of my finger. It hurt so much. I was afraid to sew for a while afterwards.”

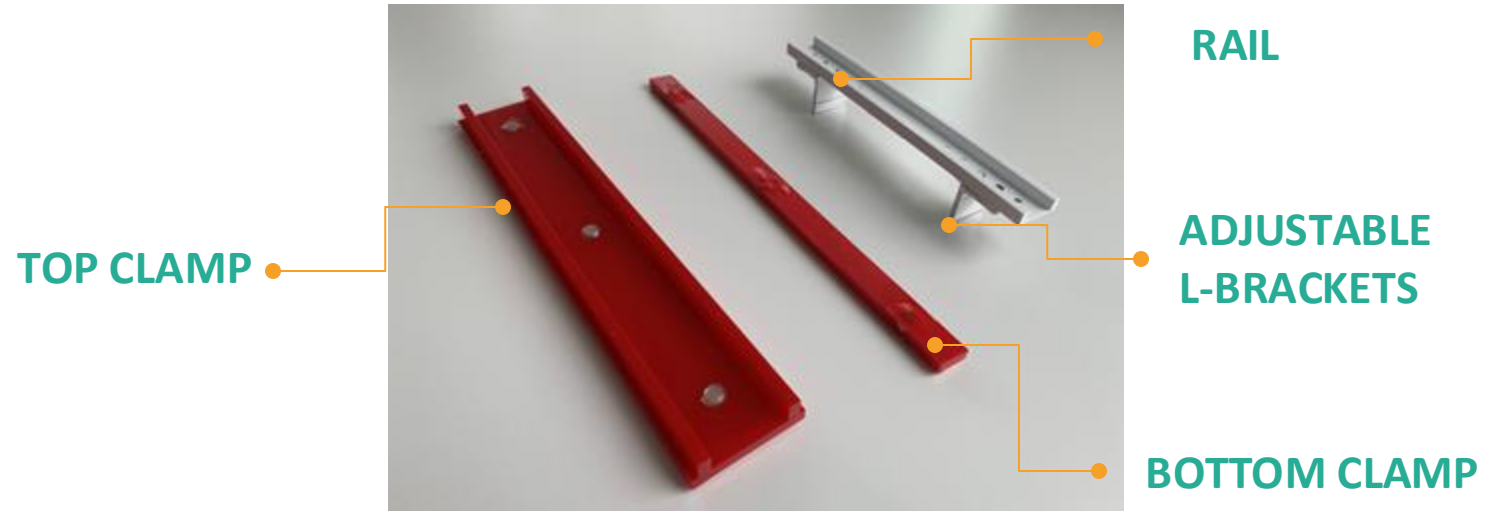
- Hobbyist



NEEDLE-LESS TO SAY, WE'VE GOT YOU.

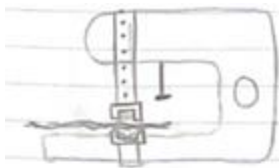


THE NEEDLE LITTLE SPACE





OUR SCRAPPED FABRIC



top part fastens to top of machine
bottom part fastens to bottom of machine

Clamps down on fabric - flat magnet on top, another on bottom
cut to size magnet w/ adhesive back?



faster to hold it against machine

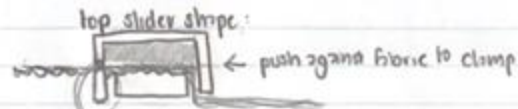
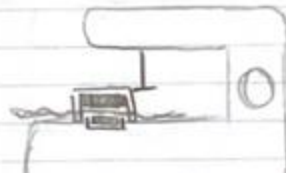


thread adjustable holder

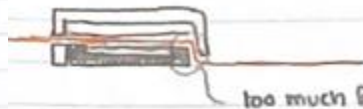
some screw to fasten against machine
to secure it



like this



bottom for the top piece, but
comes off as needed



just a little shorter than bottom

average thickness of fabric
0.006" to 0.015"

just top:

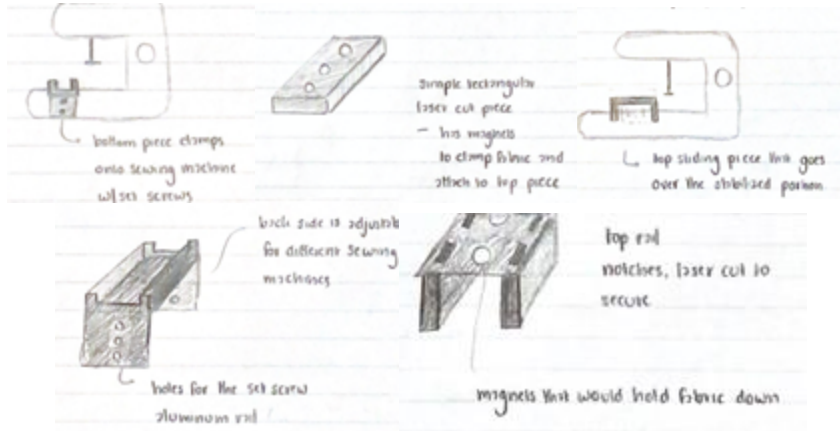


from



HOW OUR DESIGN WAS FABRICATED

HAND SKETCHES



CAD ANALYSIS



PROTOTYPE





7.7 million

people considering sewing as a hobby

1 million +

people have taken up sewing in the last 3 years



WE'VE GOT YOU COVERED

01

YOUNG SEWERS

02

OLD SEWERS

03

PERFECT FOR
BEGINNERS

04

BUT ALSO ALL
SEWERS!

OUR COMPETITORS ARE SEW-SEW

A

THIMBLE

Used only for hand sewn projects



B

SAFETY GLOVES

Limits dexterity, does not assist with straight seams



C

FINGER GUARD

Machine specific, does not assist with straight seams





COST ANALYSIS

	Notes	Price/Unit
Raw Materials	Magnets, Aluminum angle, Acrylic, Screws	\$11.29
Laser Cutting	105" cut, 4 parts ½ piece of acrylic used	\$2.03
3D Printing	25.4cm ³ ABS	\$11.5
	Total Cost per Unit:	\$24.82



MATERIAL WE LEARNED



ADAPTABILITY

Some things we wanted didn't come in time, so we had to work around it



PROBLEM-SOLVING

Working within the material constraints



TEAMWORK

Teamwork makes the seam work!



INTERVIEWING

Going into interview with an open mind



LASER-CUTTING

A very useful fabrication technique

Thanks!

Do you have any questions?

