

Signature:	Date:	Team Members:
Witness:	Date:	On Page #

- 30
- Problem: XC running spikes ~~take~~ too long to change
 - Gets into XC runners
 - Similar solutions: spike base for running flats

design criteria (1-4, 4 being best)

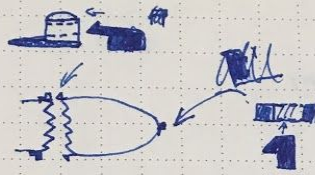
idea/criteria	cheap/easy to make	time to change (est.)	reliability	ease of use	Total
can/covers with	1	1	2	1	5
springs in shoes suspension	3	4 (no change)	1	4	12
detachable sole	4	3	4	3	14
twist-clip spike	2	2	3	2	9

Signature:

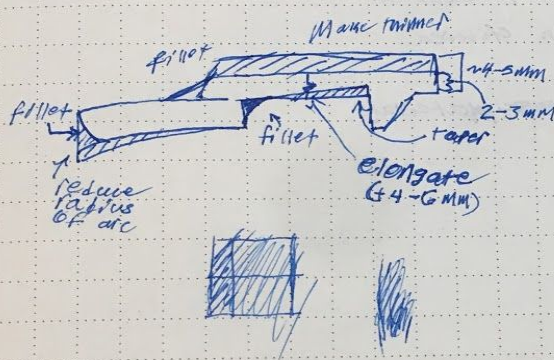
Witness:

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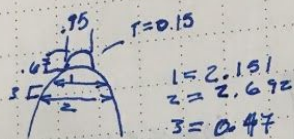
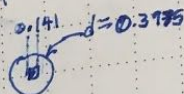
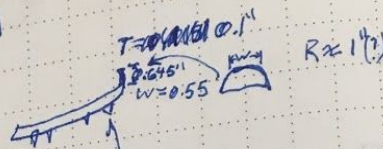
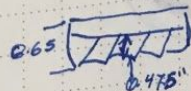
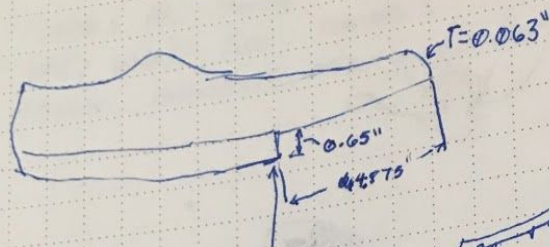
Team Members:

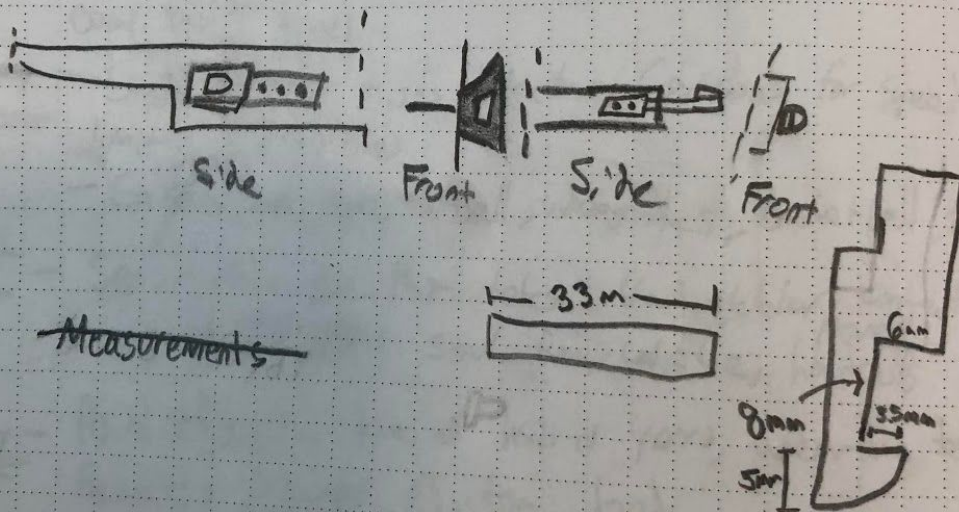
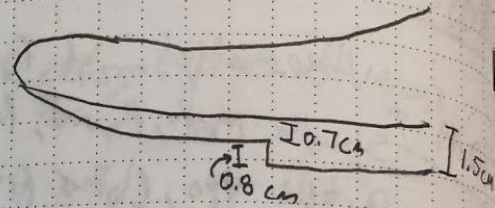
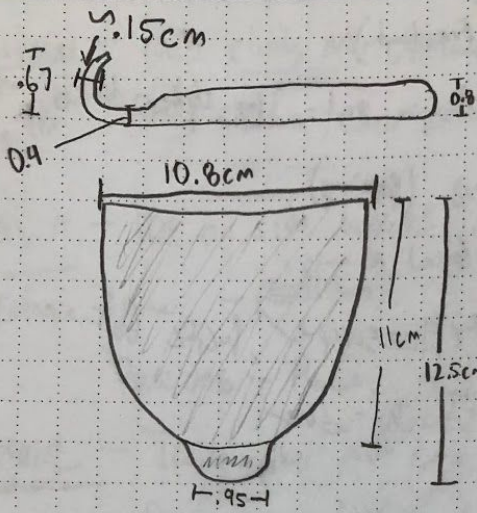


1/24/20 changes & recommendations to Daniel's part



1/17/20: shorten male clip move down for more tension





Measurements

Testing Procedures

running dist: 100+ meters = optimal
comfort
speed of changing

(2/3/2020)

To-do

Checklist

- ☒ writeup posterboard display
- ☒ take pictures relevant to presentation
- ☒ come up w/ reasonable design criteria
- ☒ collect testing data
- ☒ come up with pillar ~~test~~ materials