DESIGN FOR MANUFACTURE

ABOUT ME







ABOUT ME







Design Director



Founder

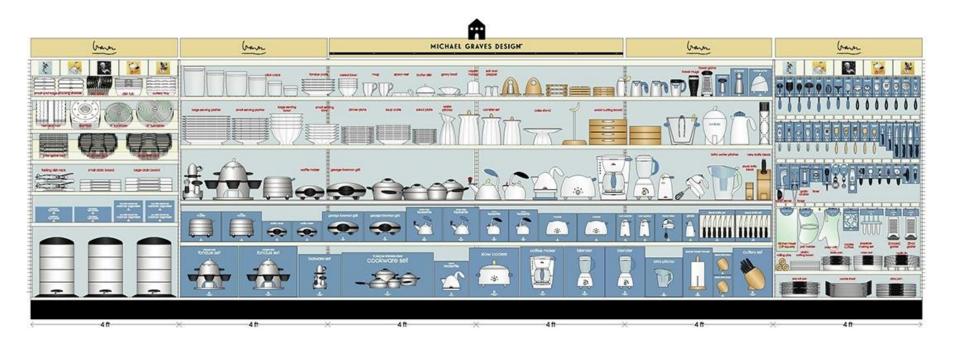








OTARGET



70 SKU'S PER QUARTER









2 PARTS

STARTUPS AND DESIGN NUTS AND BOLTS

STARTUPS

SAVE UP FOR DESIGN

"Coming up pretty soon."



DOLLARS NOW



DOLLARS NOW THOUSANDS LATER





HOW CAN DESIGN SAVE MONEY?







"That Blue isn't blue enough"
It's actually a bit more Cerulean
than Teal



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"What if it wasn't?"
Blow it up! Get it out of my face!



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"What if it wasn't?"
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"Does it have to be like that?"

I just, like... don't get it



BUT WE'RE ALSO CANARIES

This is the part where you get sensitive...

Have you actually tested?

Do you want the truth?

Are your costs in-line?

What's it made out of?

Who can help us?

Does it work?

Does anyone even want it?





ANECDOTE #1



ANECDOTE #1

"We don't have money for tooling"





KNOWING THE CONSTRAINTS, FOR \$3,348 OF DESIGN

WE SAVED \$25,000 OF TOOLING... (AND IT LOOKS AWESOME!)

KNOWING THE CONSTRAINTS!

CHARLES EAMES



"HERE IS ONE OF THE FEW EFFECTIVE KEYS TO THE DESIGN PROBLEM —THE ABILITY OF THE DESIGNER TO RECOGNIZE AS MANY OF THE **CONSTRAINTS** AS POSSIBLE —HIS WILLINGNESS AND ENTHUSIASM FOR WORKING WITHIN THESE **CONSTRAINTS**. **CONSTRAINTS** OF PRICE, OF SIZE, OF STRENGTH, OF BALANCE, OF SURFACE, OF TIME AND SO FORTH."

-CHARLES EAMES

STUDY THE CONSTRAINTS... (AND TELL THEM TO EVERYONE)

ANECDOTE #2



ANECDOTE #2

"We're not committed to the idea yet"



OH REALLY? (THAT'S KINDA THE POINT)

WE WANT TO MAKE A MEDICAL DEVICE

[100] HERE'S A FEW DAYS OF DESIGN WORK AND VISUALIZATION

Оннннн... ACTUALLY AN APP IS GOING TO BE MUCH BETTER.

EXPLORE IT EARLY AND SCRAP

ANECDOTE #3



ANECDOTE #3

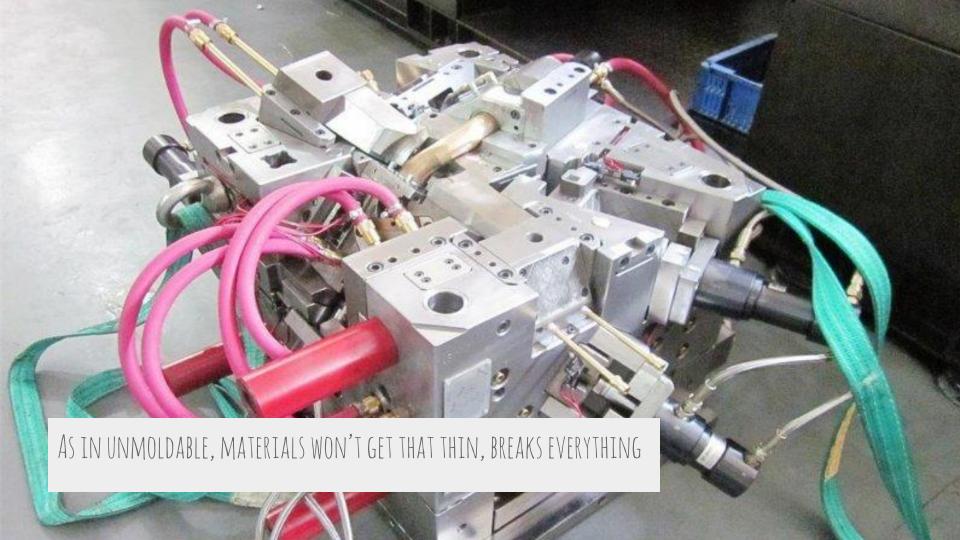
"This isn't the final. It's not done. It will be better."



MAYBE NOT...

AFTER DIGGING IN ON THE PROJECT FOR A DIFFERENT AREA, WE DECIDED...

YOU CAN'T BUILD THAT!!!



BUILD IT (CRAFT TIME)

HAVE HARD CONVERSATIONS. BE HONEST.

ANECDOTE #4



ANECDOTE #4

"We're not ready to share it yet. With manufacturer's, sales team, or humans"







TALK TO THE VENDOR

HOW DO I FIND A VENDOR?

MAKE FRIENDS

JOIN GROUPS... MANUFACTURE OR INDUSTRY BASED

DO THE LEGWORK

LEFT TURN!

ELIJAH'S GUIDE TO MAKING THINGS REAL

(AND REAL GOOD)



ALIGNMENT (LINE THINGS UP)



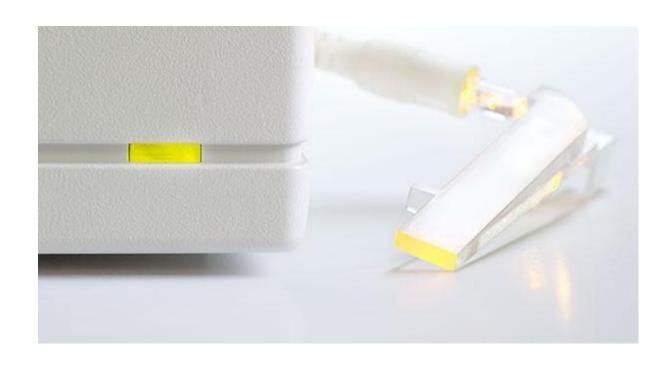
ALIGNMENT (LINE THINGS UP)



ALIGNMENT (LINE THINGS UP)









PICK ONE THING TO CELEBRATE



COMBINE PIECES



USE MULTIPLE MATERIALS

USE MULTIPLE MATERIALS



USE SOFTGOODS

USE SOFTGOODS



PLAY WITH SCALE

PLAY WITH SCALE



PLAY WITH SCALE





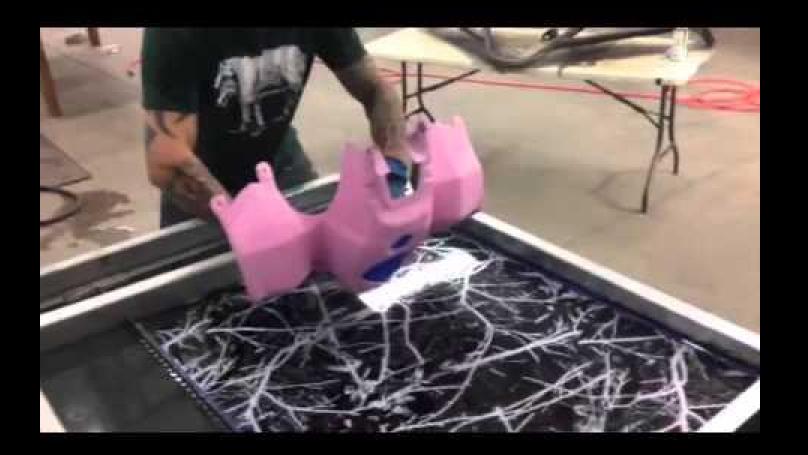
BUY THINGS THAT ARE STMTIAR AND TAKE

SIMILAR AND TAKE THEM APART!

OR WATCH VIDEOS OF OTHER PEOPLE DOING THAT.







THANK YOU! GO MAKE SOMETHING GREAT!



Questions?

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