Ben Stibal

Industrial Designer

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Education

Purdue University, West Lafayette IN | August 2013 - May 2017
B.A. Industrial Design

Experience

Zebra Technologies | Industrial Designer
January 2018 - Present

I have worked with the global team at Zebra to introduce new products and solutions for Zebra's wide portfolio. I've gained experience in interdisciplinary collaboration and design leadership with a focus on production-ready surfacing and ergonomic considerations.

Huge Design | Industrial Design Intern
July 2017 - December 2017

After graduating, I joined Huge in San Francisco to develop a variety of consumer electronics through a comprehensive design practice for clients like Intel, Samsung, HP, Axon, and many others.

Blue Clover Studios/Berry Plastics | Industrial Design Intern
May 2016 - August 2016

Worked with the industrial design team to develop packaging design solutions for corporate customers, picking up knowledge on a wide variety of plastic production methods along the way.

Design Skills

Concept generation, CAD Surfacing, design presentation, ideation, sketching, design research, color and materials, concept rendering & visualization, physical prototyping, design for manufacturing.

Software

Alias, Creo/ProE, SolidWorks, Fusion 360, Rhino, Keyshot, Sketchbook, Photoshop, Illustrator, InDesign, Premier, PowerPoint, Mac & PC fluent.

contents

mc9300 keypads

intel rush creek

respire

swap

modo

professional work
2017-present

student work
2013-2017

mc9300

keypads

The Challenge:

To update, refactor, and redesign legacy keypad layouts to fit within an updated form-factor that is 10mm shorter.

The Solution:

By increasing the halo around keys, we are able to improve user perception and confidence to mitigate reduced key size.

0.4mm overlay key offset

1mm overlay key offset

Legacy 53 Key
MC9000

Preliminary 53 Key
MC9300

Final 53 Key
MC9300

32 Key
Numeric/Calculation

35 Key
Numeric/Function

43 Key
Numeric/Function

53 Key
Alpha-Numeric STD

58 Key
Alpha-Numeric

Intel Rush Creek

CMF and Visualization

We worked in conjunction with the Intel engineering team to develop a refined appearance for the Rush Creek FPGA card. While mostly a sight unseen (and heavily constrained by airflow and thermals) we managed to boost product family alignment and create a stronger connection between packaging and product.

respire

respirator

the problem:

Respirators are great for protecting our lungs, but have a lot of potential for misuse and often aren't used as frequently as they should be.

the solution:

Respire is meant to bring simplicity and comfort to the experience of using a respirator. By improving on the pain points of respirators and dust masks, Respire aims to make respirators more personal and customizable while increasing the frequency of use.

Respire won the 2017 Model Solution Sponsorship Award

Problem Identification

Gaining insight from user interviews.

Heat and Humidity

Problem Identifier:

"The air valve helps, but I feel like I keep breathing the same hot air."

↓

Root Cause:
Heat Entrapment

↓

Current State: *Passive Filtration*

↓

Goal State: *Active Filtration*

Scratchiness

Problem Identifier:

"Dust masks are uncomfortable, but they're cheap and easy to store."

"I like the respirator's rubber seal but the straps are a pain."

↓

Root Cause:
Mask Construction

↓

Current State: *Uncomfortable*

bulky, cumbersome straps

staples, raw edges

↓

Goal State: *Comfortable*

rubber face seal, plastic construction

lightweight, low bulk, fabric straps

Protection and Use

Problem Identifier:

"I would like to get a respirator, but I would have to use it more to justify getting one."

↓

Root Cause:
Product Use Patterns

↓

Current State: *Linear Market*

↓

Goal State: *Crossover Market*

Misuse

Problem Identifier:

"I usually use dust masks when I sand and spray-paint."

"I use the stock respirator filters, but I'm not sure what they're for."

↓

Root Cause:
Product Misconceptions

↓

Current State: *Uninformed use*

↓

Goal State: *Informed use*

Mix and Match

Protection for your needs.

Respire's filters are swappable and stackable so that you can combine filters to customize your protection.

Beat the Heat

Respire is cooler than the rest.

Respire has a built in fan to prevent uncomfortable heat buildup, and the bottom facing exhalation valve prevents you from re-breathing the same hot air.

Pick Your Protection

Use what you need, leave what you don't.

Respire has a lineup of specialized filters that match your specific needs and are easy to understand.

spray paint | mold & mildew | lawn & pollen | cleaners | dust

Take Charge

Control Respire with a touch.

Respire's rechargeable fan battery and control is out of the user's sight, but the textured rubber button makes controlling Respire quick and easy.

Exploded Construction

Designed with manufacturing in mind.

swap
active watch

the problem:
Digital information can be obtrusive in some situations, especially in wearables. Many wearables lack the focus and ruggedness required by active, adventurous users.

the solution:
Swap is a smart watch for active users. It is meant to create an uninhibited, unintrusive experience that allows for quick access to information.

Don’t sweat it, swap it.

Repairs made easy.

Swap’s bezel is designed to protect the watch screen and body from scuffs and other damage. Like a built-in case, the bezel is replaceable in the event of damage or in the need of a face-lift. That way, you can focus on your well being and not the well being of your watch.

Quick Look UI

See only what you need the most.

Swap's UI focuses on the core elements of a fitness watch to ensure quick and efficient use.

detail view:
detailed fitness info
(run distance, time, and pace)

quick look:
focused fitness info
(run distance)

wake state:
time and date

quick look:
focused weather info
(current weather)

detail view:
focused weather info
(current weather, hi/lo, precipitation)

Fitness

Time

Weather

modo

modular hand shower

the problem:

Design a modular hand shower system with a minimum of four interchangeable modules which perform a specific and unique function.

the solution:

Modo is a hand shower ecosystem which addresses canine care, stain removal, accessibility, and exfoliation.

Modo won first place from Delta Faucet.

Keep Fido's Face Dry With Less Hassle

Better control for a more comfortable clean.

Modo's Groom attachment makes the experience of bathing your dog more comfortable and natural. The Groom attachment is contoured so that it can run along the dog's body in a petting motion to comfort the dog. The one handed operation keeps the owner in control.

GROOM

Fight Stains With the Power of Your Shower

Deep clean to revive your clothes.

Modo's Scrub attachment simplifies stain removal by flushing out contaminants while you work. The three treatment surfaces provide you with the tools to fight any stain on any fabric.

SCRUB

Go Where No Shower Has Gone Before

Better accessibility for complete coverage.

Modo's Reach attachment makes the act of bathing easier for people with limited mobility and reduced joint movement. By extending the arm with this curved attachment, Reach enables users to access difficult areas like behind the back and over the shoulder.

REACH

Free Your Feet

Exfoliation made easy.

Modo's Renew attachment makes the exfoliation experience cleaner by flushing the replaceable pumice with water to keep it clear of skin cells and microbes.

RENEW

Thank you.

Let’s stay in touch!
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