

Ben Stibal Industrial Designer Ben Stibal Industrial Designer

Education

Purdue University, B.A. Industrial Design West Lafayette IN, 08/2013-05/2017

Experience

Zebra Technologies, Industrial Designer Long Island NY, 01/2018 - Present

Industrial designer working on Zebra's multidisciplinary design team to develop products and solutions in robotics, healthcare, warehouse, and retail categories. Lead projects from concept through to production and worked closely with engineering to deliver tooling-ready surfaces.

Huge Design, Industrial Design Intern San Francisco CA, 07/2017 - 12/2017

Developed comprehensive design deliverables for a variety of startups and globally-recognized corporate clients through research, rapid CAD iteration, concept visualization, and prototyping on projects ranging from consumer electronics to soft goods, IOT, and architectural planning.

Blue Clover/Berry Global, Industrial Design Intern Evansville IN, 05/2016 - 08/2016

Worked with the Blue Clover team to develop packaging design solutions for corporate customers, picking up knowledge on a wide variety of plastic production methods along the way. Assisted in brainstorming, design research, concept sketching, and rapid concept generation.

Skills

Concept ideation, computer modeling & surfacing (CAD), rendering & visualization, manufacturing and process knowledge, CMF specification, physical prototyping, sketching, research, design presentation.

Software

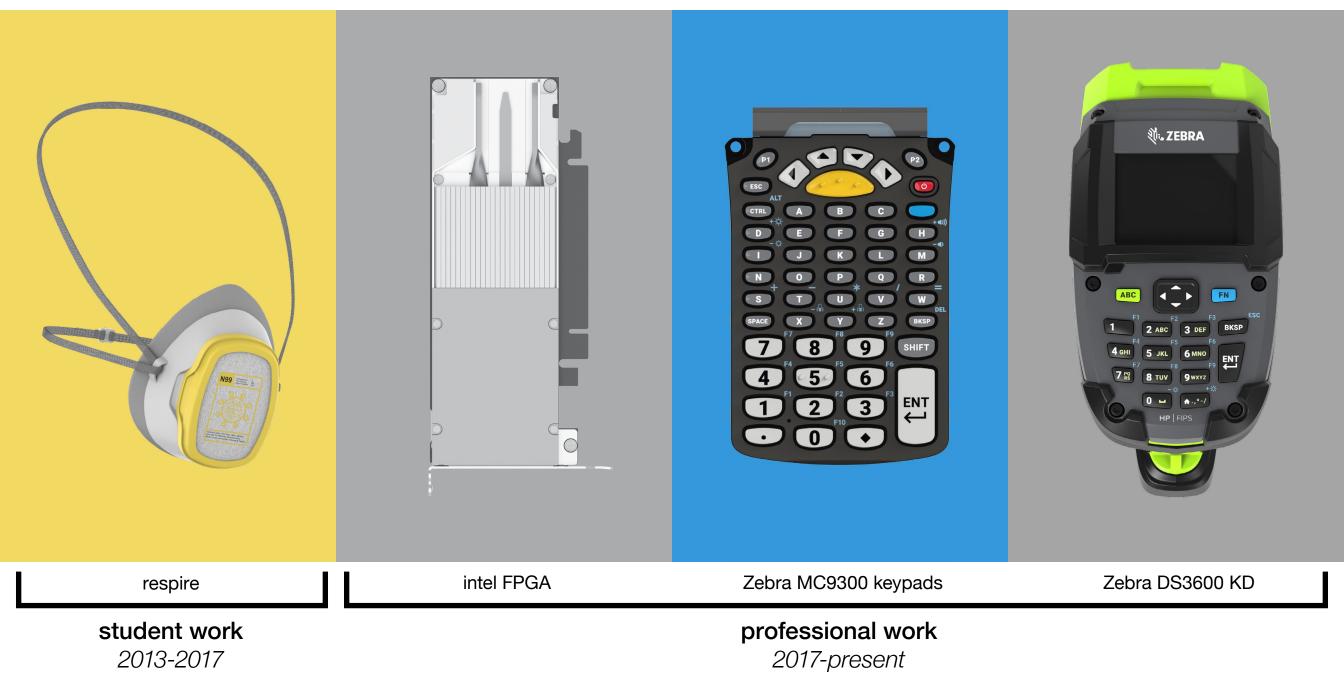
Alias, Pro-E/Creo, Solidworks, Fusion 360, Keyshot, Sketchbook, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Premier, macOS and Windows fluent.

Patents

USD917486S1, 8 additional patents pending USPTO approval.

+1. 630-414-4688 benstibal@gmail.com www.benstibal.com

contents



respirator Purdue University, 2017

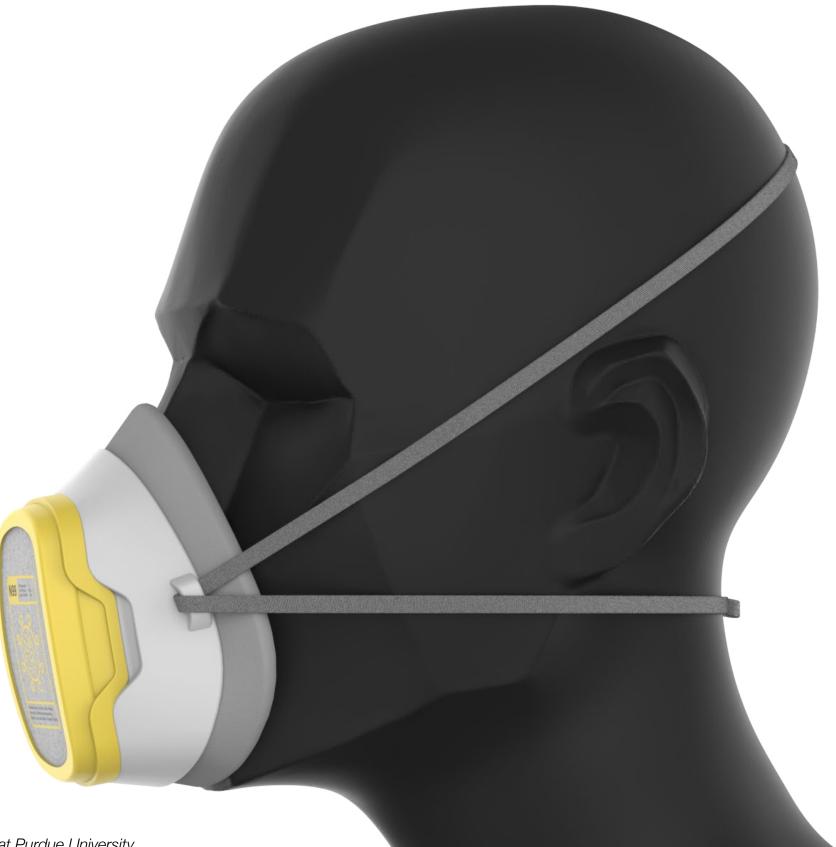
the problem:

Respirators are great for protecting our lungs, but have a lot of potential for misuse and often aren't tailored for consumer use and understanding.

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.





Problem Definition

Project Scope: Household Products



dust mask market: consumer, industrial use case: particulate & dust

respirator market: consumer, industrial use case: particulate, gases, and fumes



full-face respirator market: industrial use case: particulate, gases, and fumes



self-contained respirator market: industrial, public safety use case: supplied oxygen

Project Scenario: Household Use Cases



lawn, garden, & pollen



household cleaners



woodworking (dust)



bleach & chlorinated cleaners



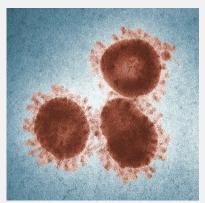
home renovation



mold & mildew

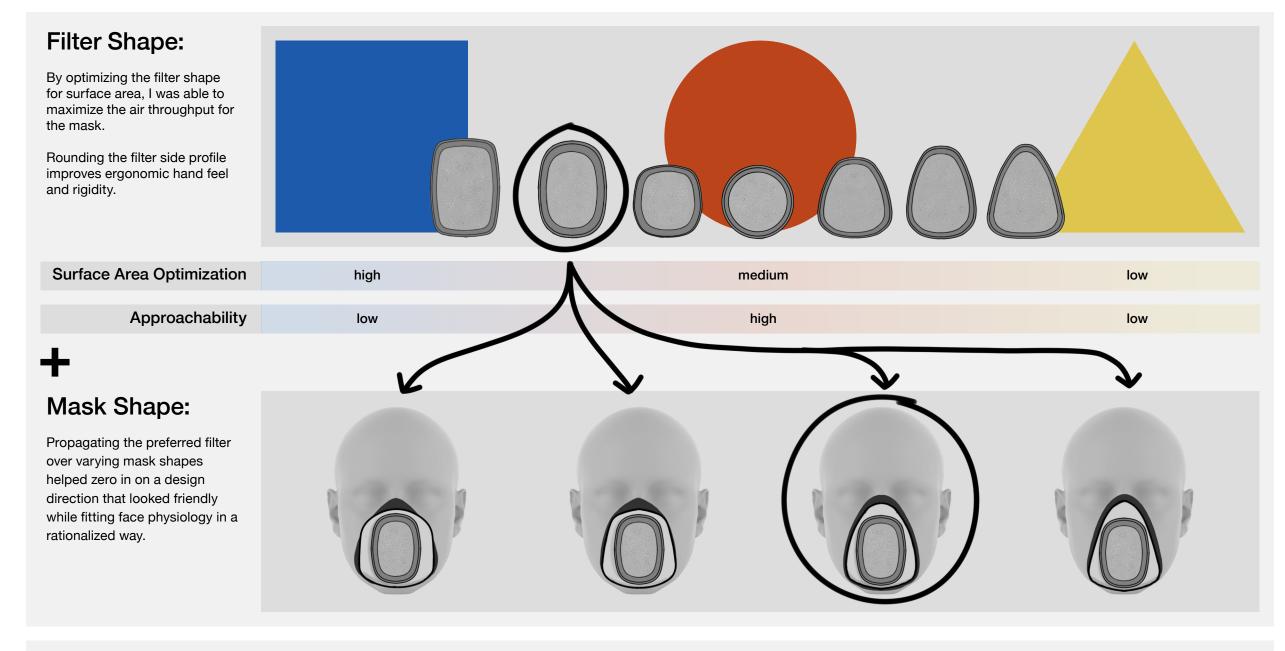


painting, wood stain, & varnish



flu & virus

Form Development



Competitive Landscape:

Existing half-face respirator designs exhibit hard lines and sharp geometric shapes, often appearing clunky and industrial.







Scenario 1:

Woodworking:

The challenges woodworking poses for respiratory protection are relatively varied depending on the extent of the project being undertaken.

Protection Requirements:

- Dust, particulate- 10-30 micron, N95
- Paint, vapor, R95
- Varnish, vapor, R95
- Adhesives, Vapor, R95

By splitting respirator protection between two independent filters, specific use cases within the woodworking category can be more easly met.

The N95 filter protects against general dust and particulate irritants.

The R95 filter protects against fumes and vapors from wood finishes.

When combined, these filters can offer improved dust protection while affording for vapors in a dynamic setting, allowing the customer to use what they need for their specific setting and use case.





Scenario 2:

Flood Damage and Cleaning:

The challenges of flood cleanup and repairs can expose the user to a litany of diverse pollutants and irritants.

Protection Requirements:

- Dust, particulate- 10-30 micron, N95
- Mold & Mildew, .3-40 micron, N99
- Bleach, Acidic Vapor, N95//Carbon, additives
- Cleaning Agents, Vapor, N95//Carbon

By splitting respirator protection between two independent filters, specific cleanup use cases can be covered .

The N99 filter protects against smaller mold and mildew particles.

The N95 bleach filter protects against from acidic bleach fumes and vapors while also protecting against generalized dust.

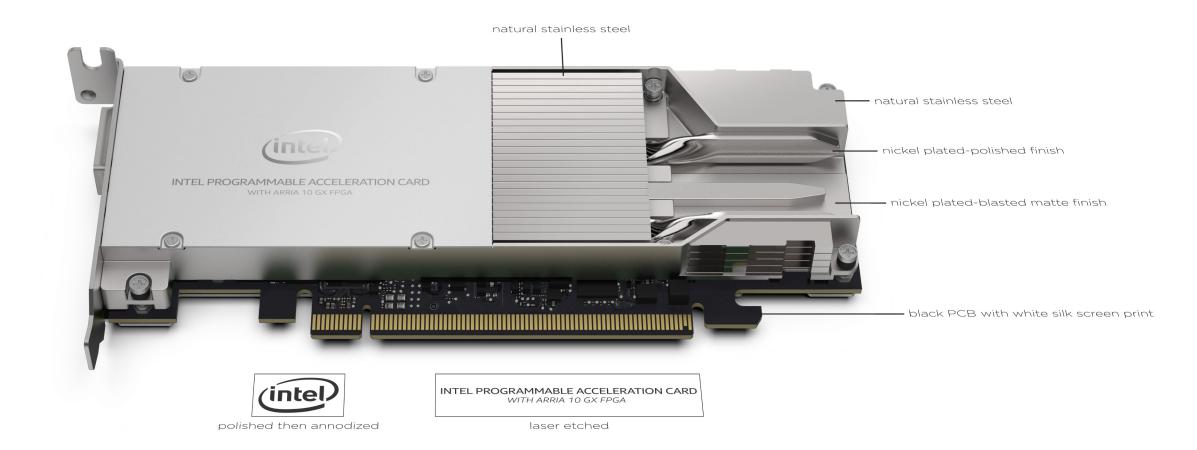
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N99 Steinest

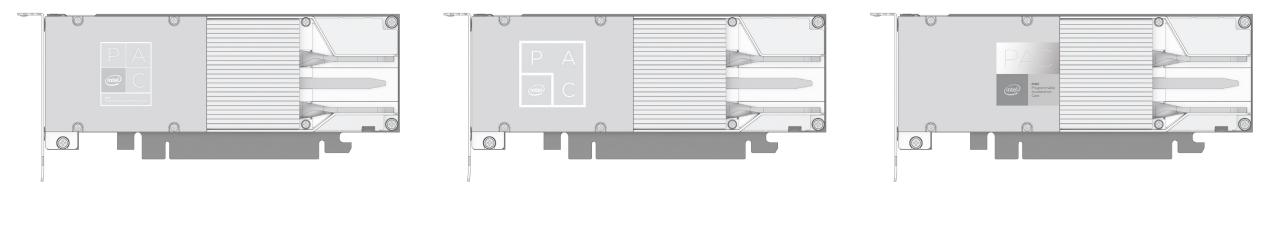
intel FPGA

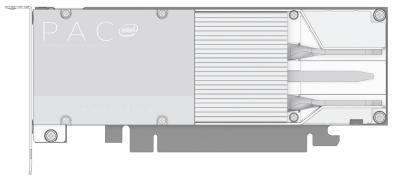
cmf and visualization Huge Design, 2017

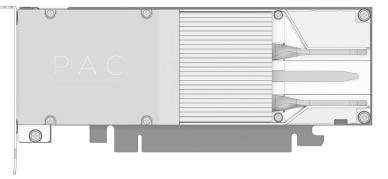


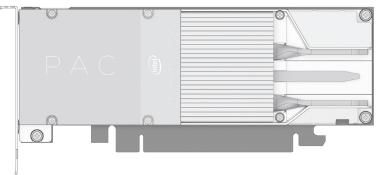
I worked with the Intel engineering team while at HUGE Design to develop a refined CMF appearance for the Rush Creek FPGA card.

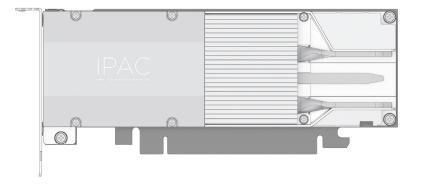
While mostly a sight unseen (and heavily constrained by airflow and thermals) we arrived at a result that boosted product family alignment, satisfied Intel, and create a stronger connection between packaging and product.

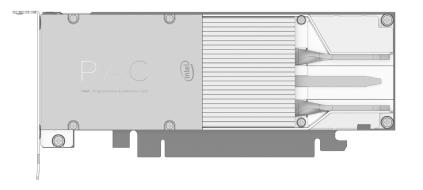


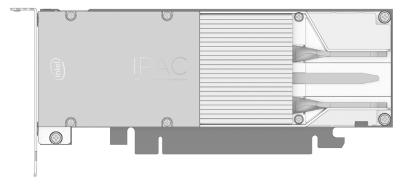














The Challenge:

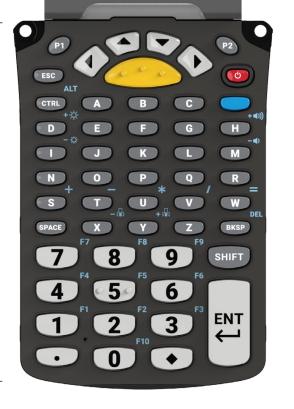
To update, refactor, and redesign legacy keypad layouts to fit within a new form-factor that is 10mm shorter than its predecessor.

The Solution:

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

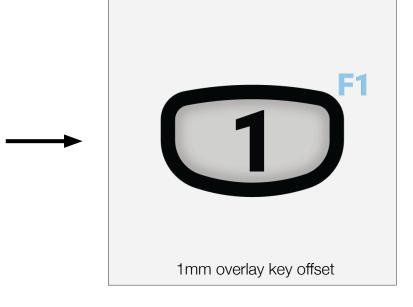


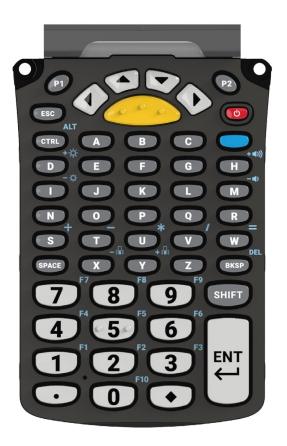
95mm



0.4mm overlay key offset

F1





Legacy 53 Key MC9000 Preliminary 53 Key MC9300 Final 53 Key MC9300

keyboard family



32 Key Numeric/Calculation



35 Key Numeric/Function



43 Key Numeric/Function



53 Key Alpha-Numeric Standard



58 Key Alpha-Numeric





Thank you.

- 🗠 benstibal@gmail.com
- in linkedin.com/in/benstibal
- benstibal.com