Katarina Vorne

Design Portfolio 2022

About Me

Context for my designs

I point users to success
with intuitive interfaces that add
value to products & brands.

Hi, I'm Katarina, and I am a **problem solver**. I am constantly looking for ways to improve the world around me.

As a Junior at the University of Notre Dame studying Computer Science and Collaborative Innovation Design, I love learning new tools to create a better world through user-centered design.

I love to travel, hike, and go on adventures, drawing inspiration and creativity from my experiences.

I also love to make connections with people. I am constantly learning new things from others and love to hear different ideas and opinions. This is vital for my self-growth and developing empathy.

I am looking to work on a passionate, collaborative, multidisciplinary team that values quality products.

Contents

Demonstration of my thoughtful and creative solutions to user needs

Internal mock-ups used with permission from Vorne Industries.
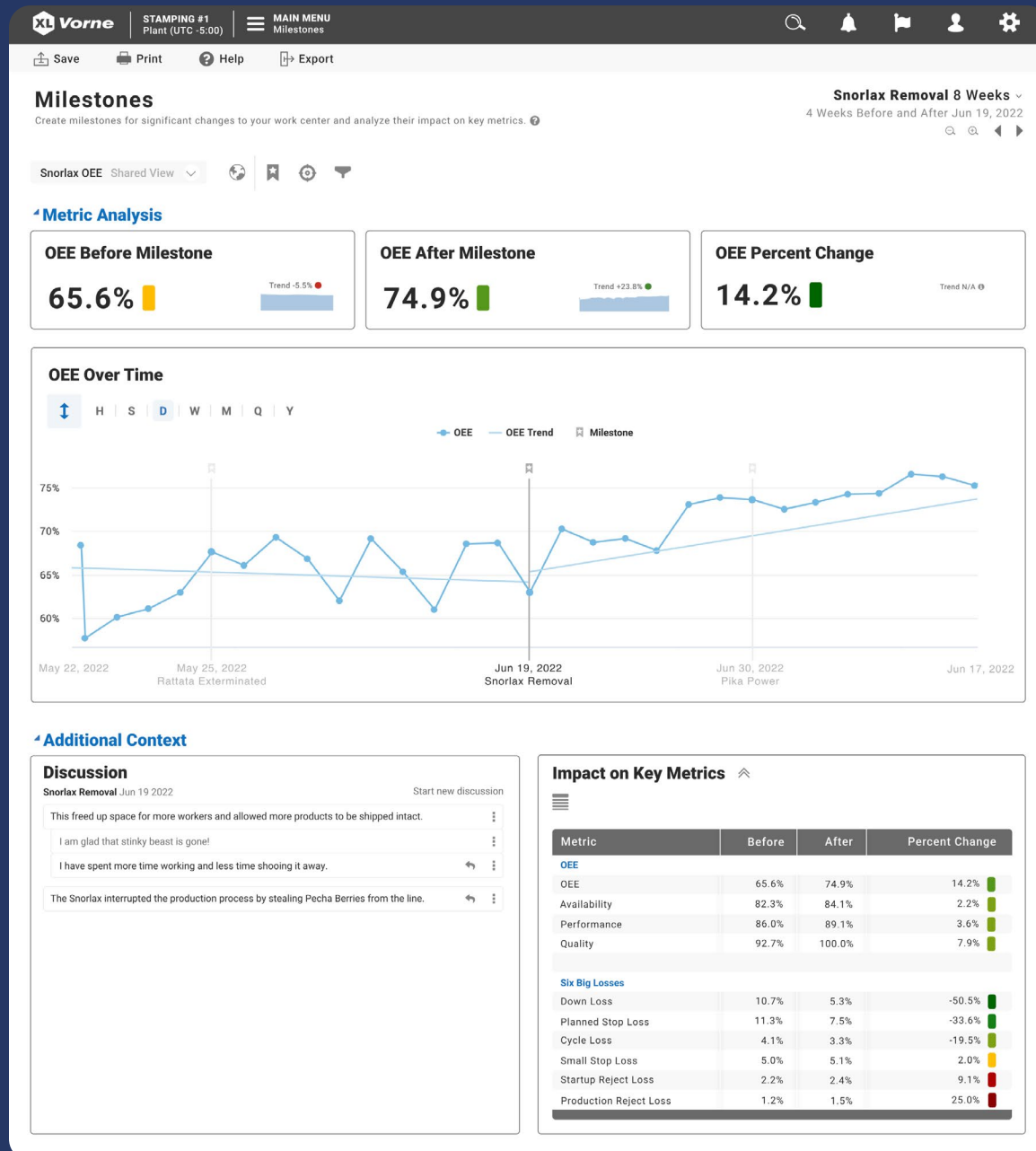
Milestones

Vorne Industries 2022

Need

Plant managers and operators need a way to accurately measure and document the impact of changes made to their production process.

Solution

Visualize and quantify key metrics before and after a central milestone with clear color indicators and peripheral context including other milestones in the time range, discussion about the milestone, and more metrics to explore.

Milestones Page

Design Challenges

- Design for broad range of global users, including those managing remotely and/or whose highest level of education is high school

- Implement a new feature consistent with functionality of the rest of the application

- Ensure data is clear, insightful, and cannot be manipulated or misleading

- Encourage exploration of different metrics

- Provide space for qualitative and contextual information about the milestone

- Balance simplicity with powerful customization

Milestones Live Controls

Design Challenges

- Follow conventions of existing live controls

- Design intuitive controls for both desktop and mobile

- Create default milestone "Recent History" for devices without much data or without configured milestones

- Highlight normalized metrics to ensure data is not misleading or confusing

- Make it easy to find specific milestones

- Enable precise, conditional analysis

- Clearly define the time range to be applied to the page

Software Updates
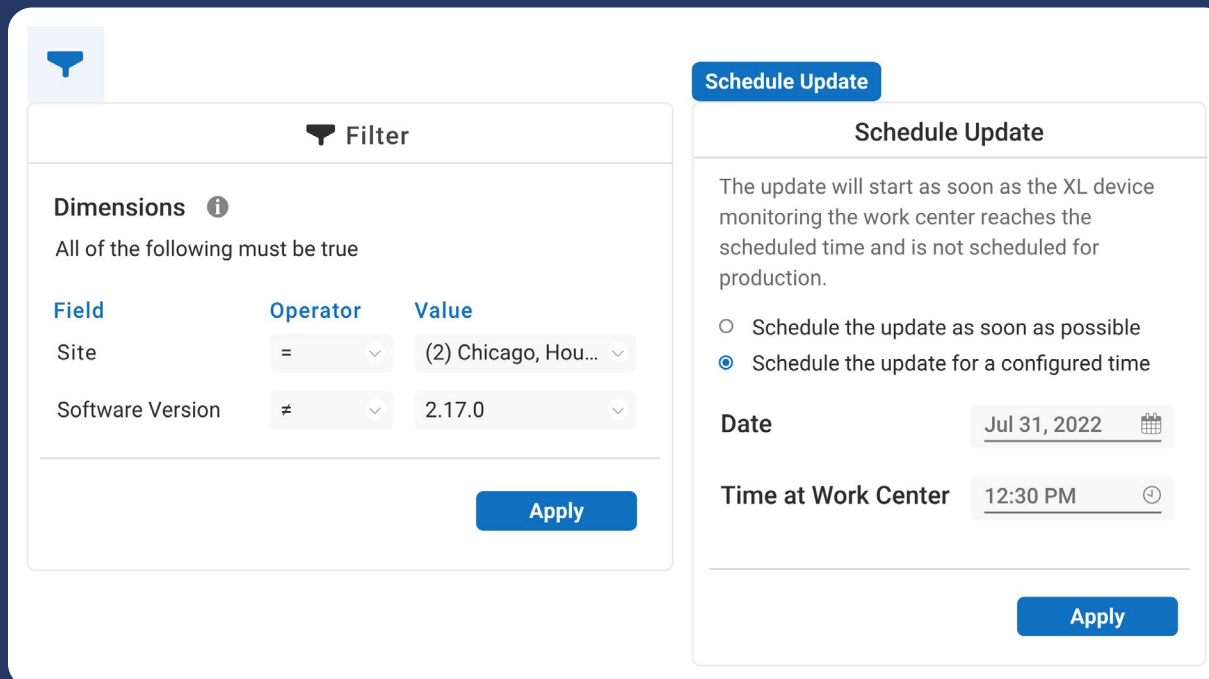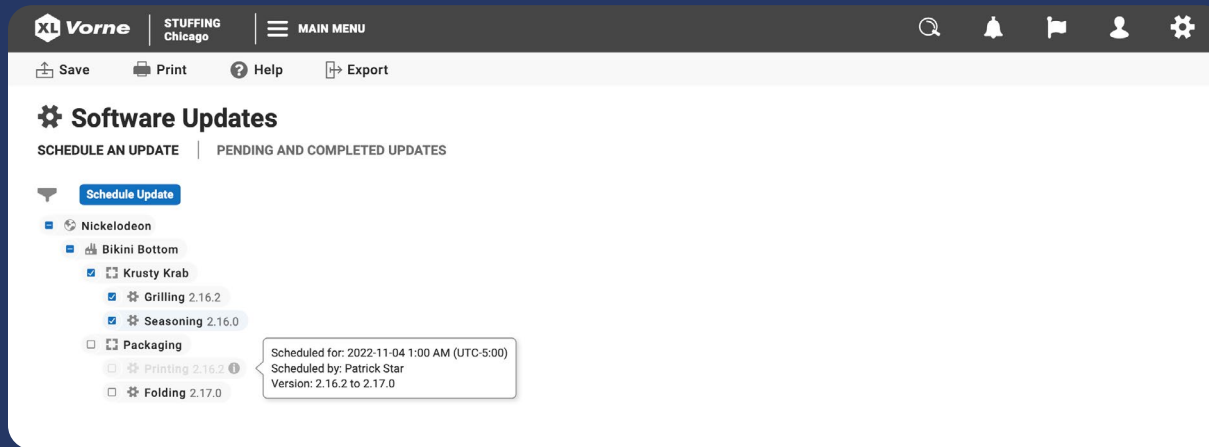
Vorne Industries 2022

Need

Industrial plant managers need a way to schedule software updates across many remote devices.

Solution

Create separate pages for scheduling and managing updates with visual indication of device status and update history of each device.

Scheduling Updates

Design Challenges

- Allow quick, custom selection of many devices grouped by enterprise hierarchy

- Disable already scheduled or up-to-date devices

- Clarify & standardize the update time for updates scheduled across time zones

- Make it easy to filter and find work centers to update

Managing Updates

Design Challenges

- Separate actionable updates (pending) and historic updates (completed)

- Display vital information and indicate supplemental information with a tooltip

- Indicate who is scheduling & managing updates

- Draw attention to failed updates and cause of failure

- Create actions to modify pending updates

- Keep consistent formatting between pending and completed updates

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Save   Print   Help   Export

⚙ Software Updates

SCHEDULE AN UPDATE | **PENDING AND COMPLETED UPDATES**

⁴ Pending Updates

Status	Update Time	Work Center	Area	Site	Prior Version	New Version	Scheduled By	
Pending	2022-11-04 1:00 PM (UTC+12:00)	Grilling	Krusty Krab	Bikini Bottom	2.16.2	2.17.0	SpongeBob SquarePants	⚙
In Progress	2022-08-09 1:00 PM (UTC+12:00)	Printing	Packaging	Bikini Bottom	2.16.2	2.17.0	Patrick Star	⚙
Failed ❗	—	Seasoning	Krusty Krab	Bikini Bottom	2.16.0	—	SpongeBob SquarePants	⚙

⁴ Completed Updates

Status	Update Time	Work Center	Area	Site	Prior Version	New Version	Scheduled By
Failed and Canceled ❗	—	Printing	Packaging	Bikini Bottom	2.16.2	—	Patrick Star
Successful	2022-07-04 1:00 PM (UTC+12:00)	Folding	Packaging	Bikini Bottom	2.14.0	2.17.0	Patrick Star
Canceled ⓘ	—	Seasoning	Krusty Krab	Bikini Bottom	2.16.0	—	SpongeBob SquarePants

⚙

Cancel

Reschedule

Configuration Views

Vorne Industries 2022

Need

Plant managers of both small businesses and global corporations need a clear and easy way to view and apply configuration to their enterprise hierarchy.

Solution

Design three different interactive and scalable views: Collections, Default Collections, and Work Center to make it easy to identify and change configuration in context.

Collections & Defaults

Design Challenges

- Design view of all collections with paths to add or edit

- Categorize collections by entity for easy search and suggested application

- Filter collections by entity to compare similar applications or quickly identify collections

- Preview where collections are applied with detailed, formatted tooltip

- Create visual hierarchical model for users of how collections are being applied

- Focus user on one enterprise site at a time to emphasize inheritance and conserve vertical space

- Filter by entity or search for site

Work Center

Design Challenges

- Manage configuration at the most local level of enterprise hierarchy

- Break down collection application by entity

- Suggest collections based on those applied to higher levels of the enterprise hierarchy or similar equipment

- Make it easy to search for configured collections

Date and Time Selection

Vorne Industries 2022

Need

Users need a great experience selecting date and time ranges.

Solution

Use intuitive design, optimized to provide visual feedback and keep number of clicks limited.

Date and Time Selectors

Design Challenges

- Create dropdown that is faster and easier to use than manually typing date & time information

- Optimize for recent dates, but make it easy to quickly choose distant past and future dates

- Make current selections clear to user

- Create design that can be adjusted for users with different formats for date and time (e.g remove AM/PM button and use 24 hr. time)

- Use hover or long press effects to indicate possible selections

- Distinguish designs between selecting a single date and a date range

Typography Styles
Vorne Industries 2020

Need

Users need a feeling of consistency throughout web application.

Solution

Consolidated over 100 different typography styles into one typographic scale with 20 intentional, complementary, and versatile styles.

Type Scale

Design Challenges

• Follow existing branding

• Design a clear text hierarchy

• Identify complementary font families and colors for common textual pairings

• Clearly define use cases of different fonts to create feeling of consistency

• Make text styles meaningful by using colors and font styles to draw attention to patterns in app behavior

• Create enough variety in fonts and consider all use cases to reduce need for future addition of new styles

Thank You

For taking the time to view my work.

Learn more:

kvorne.github.io | linkedin.com/in/kvorne | github.com/kvorne

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