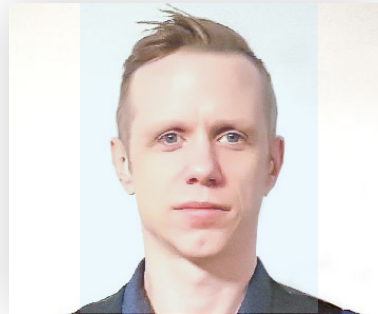




Welcome to my portfolio. I am a seasoned UX designer known for engaging with challenging projects for both niche markets and global solutions.

My passion lies in the technical nuances of design, cultivated through forging strong relationships with specialists and diving deep into the intricacies of each project.

My approach is characterized by a keen ability to listen, seamlessly integrate with client teams, and transform complex documentation into clear, actionable insights.

Today, I'll share projects that highlight my dedication to innovative solutions and my journey in enhancing user experiences through thoughtful design. I will start with a case study.

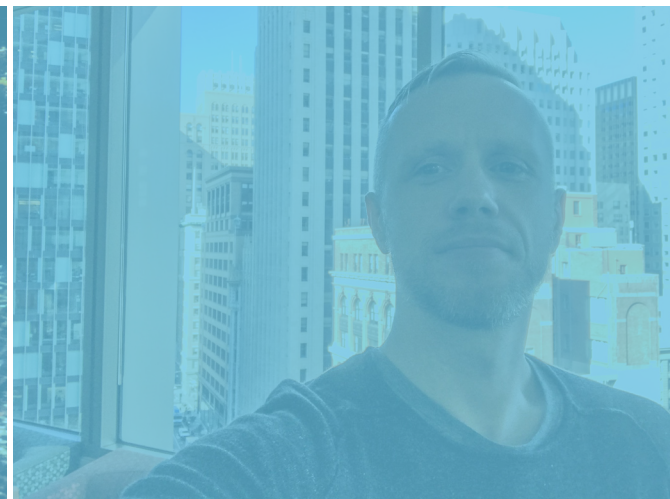
Let's dive in.

RAMBUS CRYPTOGRAPHY RESEARCH

WHEN
2018

WHERE
San Francisco, CA, USA

WHAT
It's complicated.
Can you fly over?



MEETING THE CLIENT

THE THING

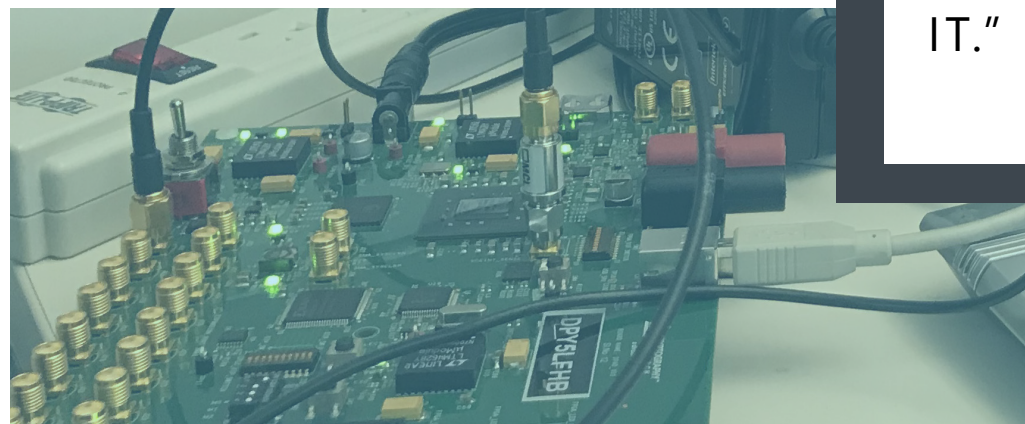
The client's product was an encryption-breaking box. It worked by listening to electromagnetic radiation given off by a CPU running a hashing algorithm. Thanks to statistical analysis and a bunch of fringe math, they found a way to recreate the encryption key. It was genius.

It was also clunky, **difficult to use**, market, sell, and teach.



THE THING

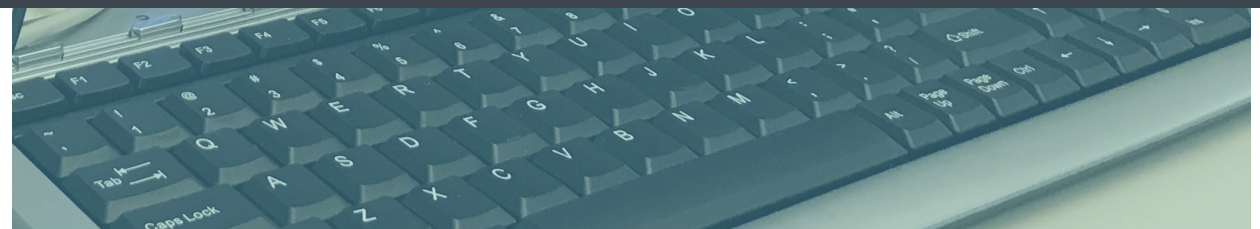
The Test Station was a powerful PC, paired with a lambda probe, custom signal driver PCB and an external oscilloscope.



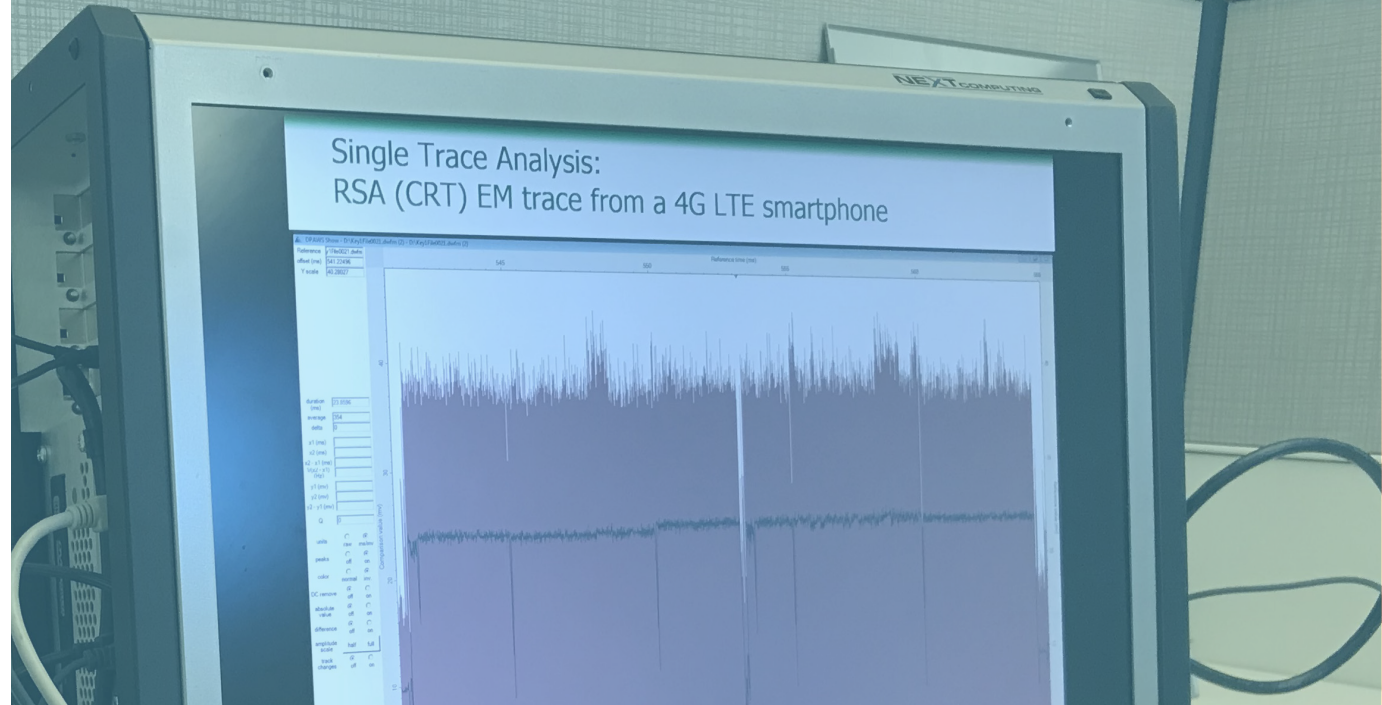
"OUR
MARKETING
TEAM
DOESN'T
UNDERSTAND
IT."

"OUR CLIENTS
REQUIRE
EXTENSIVE
TRAINING"

"OUR BACK
OFFICE IS
OVERLOADED
WITH
SUPPORT
QUERIES"



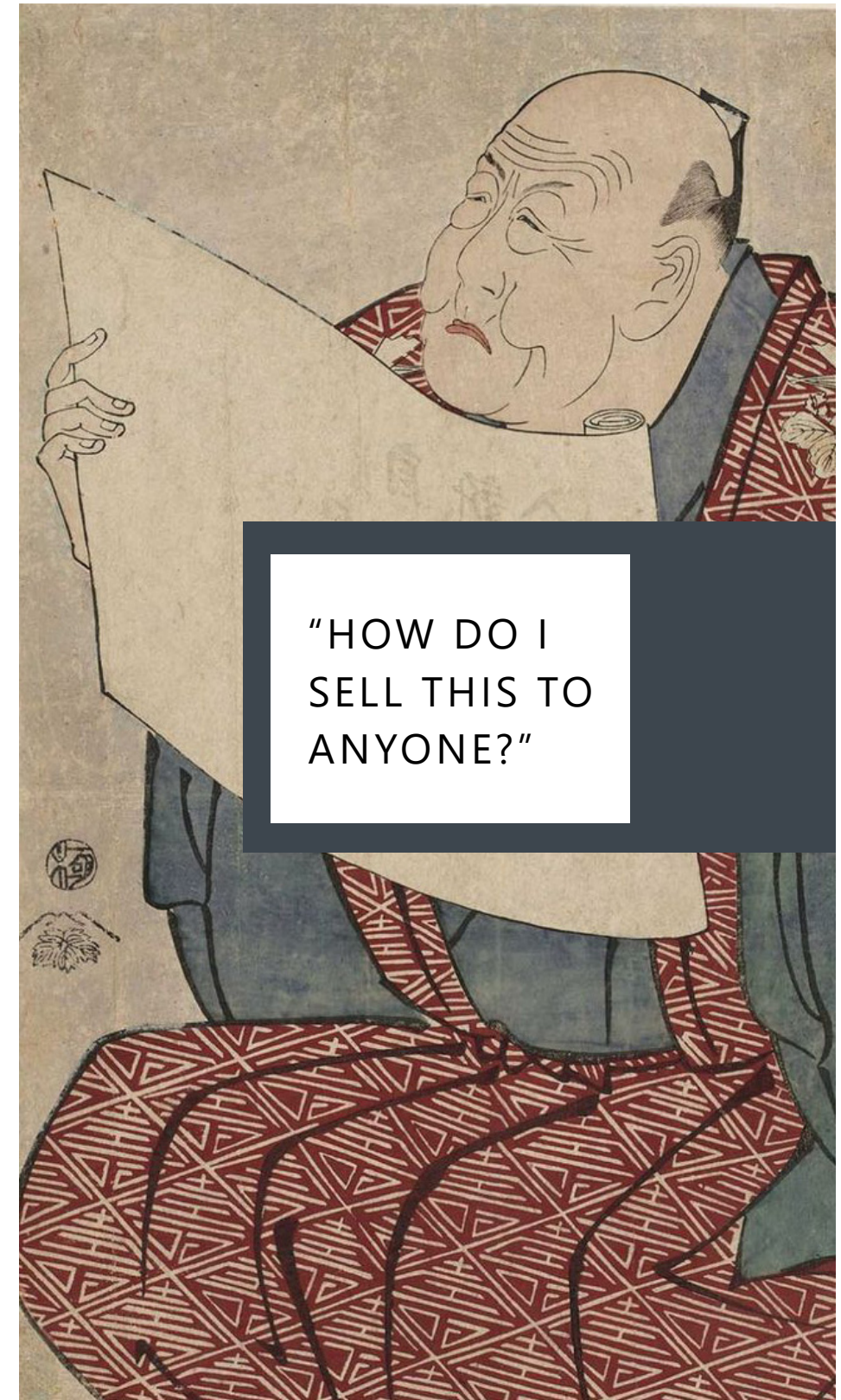
It was running a python environment with basic MATLAB graphing library and an occasional Visual C++ based interface.



THE THING

After plugging it in and pressing ON,
the user ended up with this:

```
C:\Windows\system32\cmd.exe
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2018, 14:08:36) [MSC v.1933 64 bit (AMD64)]
Version: v1.7.0
Commit hash: cf2772fab0af5573da775e7437e6acdca424f26e
-
```





RESEARCH

THE PROJECT'S BUSHIDO

Like any other project I decided to fall back on my personal set of waypoints that would help me navigate through this engagement

METHODS USER DESIGNER

Study the product

Define and understand the requirements

Know the client's expectations

Discover and understand the end user

Accommodate existing use cases, design for future ones

Define and execute the design system

Test and study the results

RESEARCH

THE TRAINING

Over a two-week intensive, I delved deeply into both the practical usability and theoretical underpinnings of the product at Rambus.

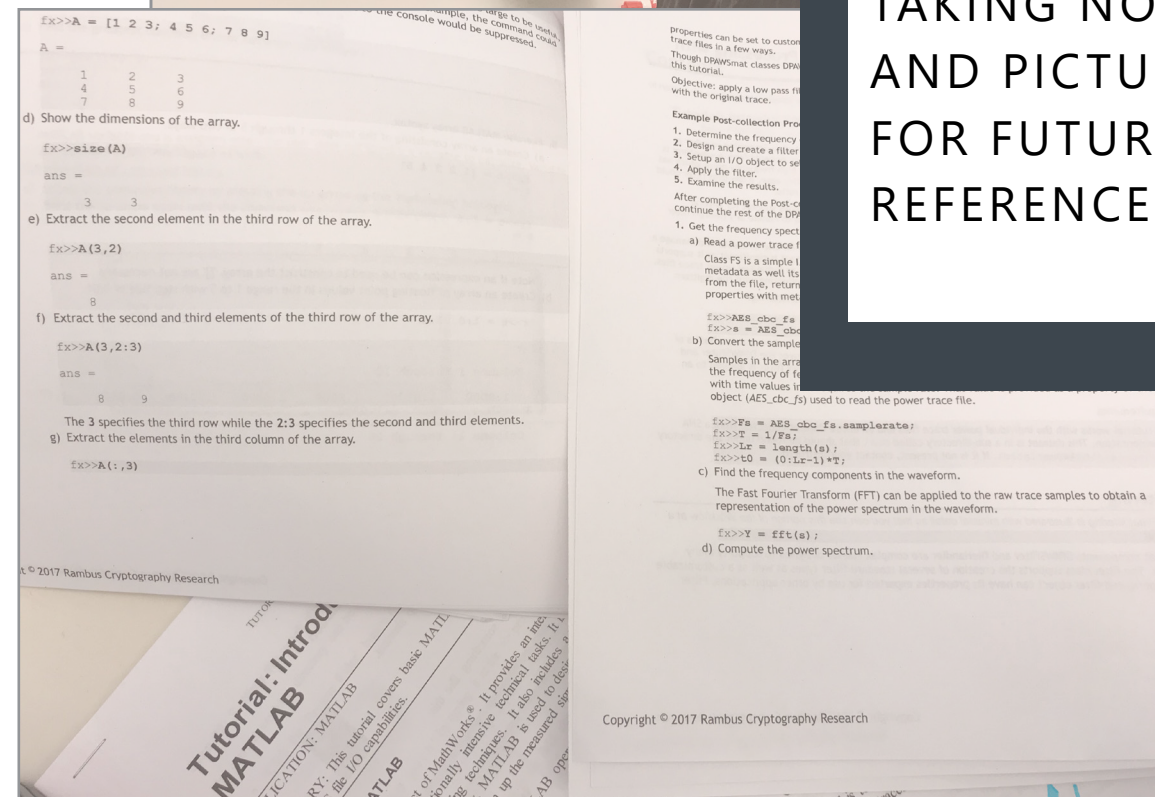
This immersion involved:

- Familiarizing myself with the project scope and company ethos
- Compiling key features and compatible hardware specifications
- Aligning with the project timeline and critical milestones
- Mastering the product functionality and supporting theory... lots of theory.
- Engaging with training materials, clients, and instructors to understand user experiences
- Collaborating with engineers on active cases and identifying common user challenges with support staff

This approach not only solidified my grasp of the technology but also integrated me into the ecosystem of the product's application and support.



I MADE A
HABIT OF
TAKING NOTES
AND PICTURES
FOR FUTURE
REFERENCE



DEFINITIONS

PROBLEM STATEMENT

The product was hard to sell; it required engineers to travel along with salespeople, pulling them away from their jobs. It was difficult for people outside the company to use. Teaching it during a week-long training was challenging, and the amount of material was staggering. Any engineer working with this product basically started with a console command line in a Python shell. From there, they would execute scripts and libraries to help them study the recorded EM signal. The initial task I was hired for was to build a UI, but **after learning everything I could, I decided to propose a wider solution** to a broader problem:

CREATE
INTUITIVE UI
THAT SPEEDS
UP THE
WORKFLOW

LOWER THE LEARNING
CURVE WITH PRESETS
AND UI FLOWS THAT
COVER 90% OF
USE-CASES

REFINE TEACHING
MATERIALS AND
INTRODUCE 3
CERTIFICATION
LEVELS INSTEAD OF 1



EXECUTION

THE UI

Two weeks of daily brainstorming and requirements gathering ensued.

I listened, asked questions, and prototyped at the same time, pushing the discussions further thanks to the visuals and usability demos.

Python scripts were macroed to buttons, we found a way to present and modify the configuration file, and introduced UI-based adjustments to test parameters before committing to the test procedure.

The testing phase would last for days while the device was gathering millions of electromagnetic traces

The setup had to be perfect before the product could start the analysis.

CREATE
INTUITIVE UI
THAT SPEEDS
UP THE
WORKFLOW



EXECUTION

THE UI

Months later, thanks to rounds of user testing, interviews with instructors, students, engineers, marketing, and sales, we landed on a framework UI that allowed expansion, customizability, and preset definitions.

LOWER THE
LEARNING CURVE
WITH PRESETS AND
UI FLOWS THAT
COVER 90% OF
USE-CASES



EXECUTION

EDUCATION

By introducing the preset and flows mechanic in the UI, we were able to solve most of the basic analysis needs the clients were struggling with. This posed a question—**do the operators still need to undergo the full, expert training that lasted five days?**

The short answer was: No.

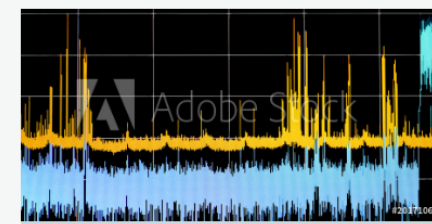
REFINE TEACHING
MATERIALS AND
INTRODUCE 3
CERTIFICATION
LEVELS INSTEAD
OF 1

We gathered a team of engineers, an instructor, and a tutorial writer in a room for a couple of days and we broke down the material into three tiers. Expanding a single certification into three levels allowed us to free up the time of engineers doing the training. It introduced new revenue options for the company and allowed basic users to quickly onboard the product. By analyzing and including Frequently Asked Questions, we managed to solve many of the problems the back office support team was struggling with.

I also designed a simple web-based tutorial library that organized product information.



GETTING STARTED



What is
SPA and DPA?



DPA Workstation
Five Day Course Modules

ADVANCED TOPICS

DPAWS FUNDAMENTALS

- COURSE:**
- Introduction to Side Channel Analysis
- COURSE:**
- Using the DPA Workstation
- COURSE:**
- Advanced Concepts

SOFTWARE

- Exploration
- Data Collection
- Signal Processing
- Guessing and Partitioning
- Averaging
- Evaluation

DPAWS SCRIPTING MODULES

SOFTWARE

- Spike Integrated Analysis Environment
- Scripting
- Command Line Tools Reference
- PreviewLite
- MATLAB
- DPAWS MATLAB Commands
- DPAWS.EXE
- DpawsShow
- Filter Designer

HARDWARE

COURSEWARE

- Slides
- Tutorials

OTHER MATERIAL

- Analysis Examples
- Countermeasures
- Articles, Papers and Presentations

[RELEASE NOTES](#) | [LICENCE AGREEMENTS](#) | [CONTACT](#)

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SUMMARY

TESLER'S LAW

Working on this product was challenging at best and exhausting at its worst, but it allowed me to employ everything I knew about the design process. From gathering requirements, researching the users, **learning the product**, identifying problems, questioning the beaten path, and serving the team with an outsider's perspective, I was able to solve problems at a much higher level than was initially assumed.

I've managed to reduce complexity but also identify the needs of the end users and the level of complexity they are accustomed to.

It was the ultimate practice of top-down engagement with all levels of the company's departments, balancing their individual needs to ultimately produce a great tool.

It was my best work so far.

THERE IS
A CERTAIN
AMOUNT OF
COMPLEXITY TO
ANY GIVEN TASK
AND IT CANNOT
BE REDUCED
BEYOND A
POINT



SUMMARY

FEEDBACK

**Anton Kochepasov**  · 1st

Sr Software Engineer

March 6, 2019, Anton was Wojciech's client



All LinkedIn members



On



I have worked with Wojciech for over a year, developing a user interface for our statistical analysis platform. Wojciech is a good listener, who wants to understand the scope properly, and he has the initiative to come up with new insights. He has illustrated and prototyped several solutions for our project on an ongoing basis alongside with supporting existing design and developing new features. His work was a noticeable milestone in the visualization of our product even before a single line of code is written. He would be a great addition to any team.

THE STORY CONTINUES

WHAT'S NEXT?

After concluding my work in San Francisco, I moved on to explore new opportunities. Since then, I've been involved in numerous rewarding projects. While many have been memorable, I have decided to select and present only a few below.

Enjoy!



CLIENT

NASA

PROBLEM STATEMENT

TIME TRACKING

For a unique NASA challenge, the task was to conceptualize smartwatch applications for International Space Station (ISS) residents to aid their daily schedules. Following an extensive brief, my project stood out among 237 entries, earning a perfect 5/5 rating from NASA and securing third place in download popularity.

The design featured a scrollable timeline for easy schedule viewing, various timers for tracking ongoing experiments, and a widget for system status updates. It also introduced differentiated alert priorities and offered solutions for tracking the day/night cycle in orbit—a challenge unique to the space environment.

[Please feel free to check out the full project presentation here.](#)



CLIENT

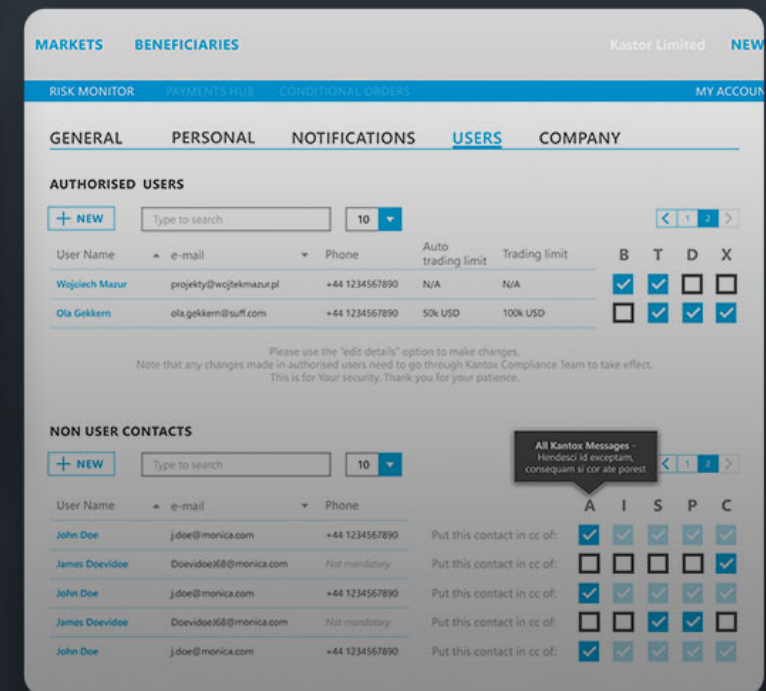
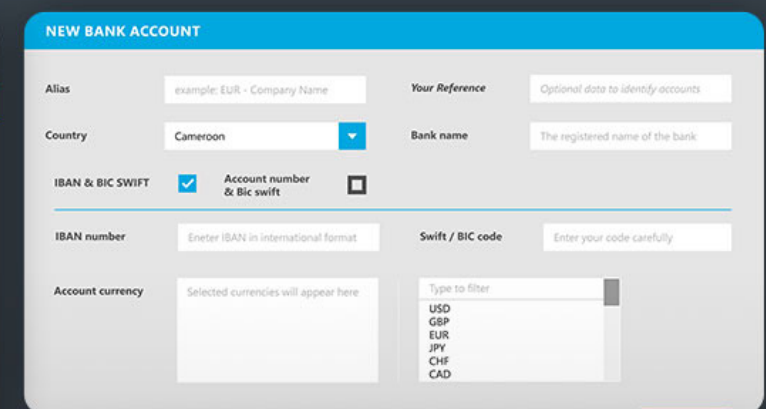
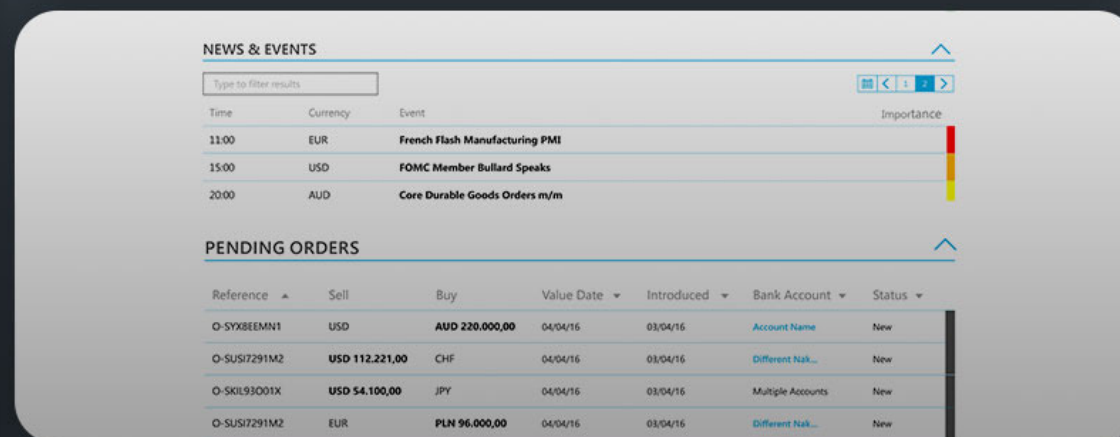
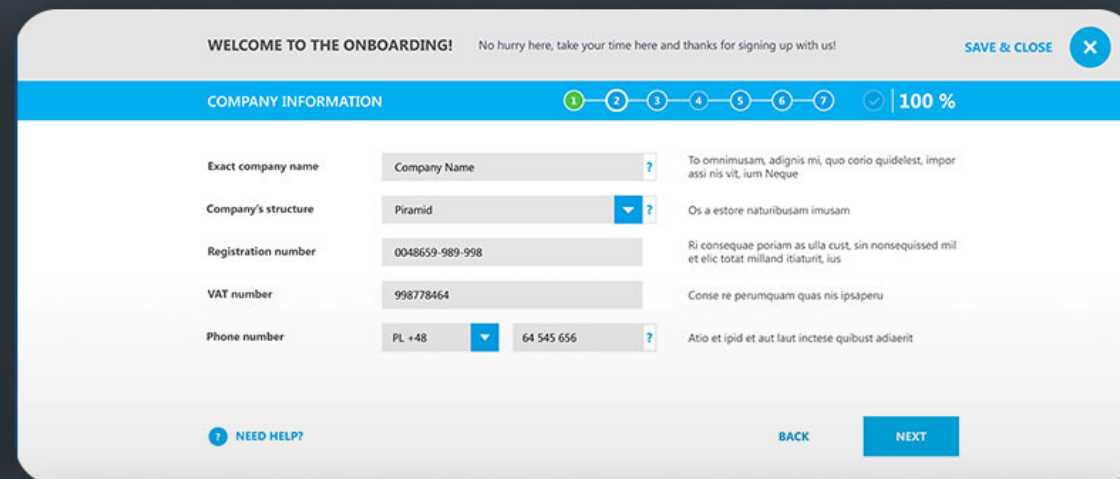
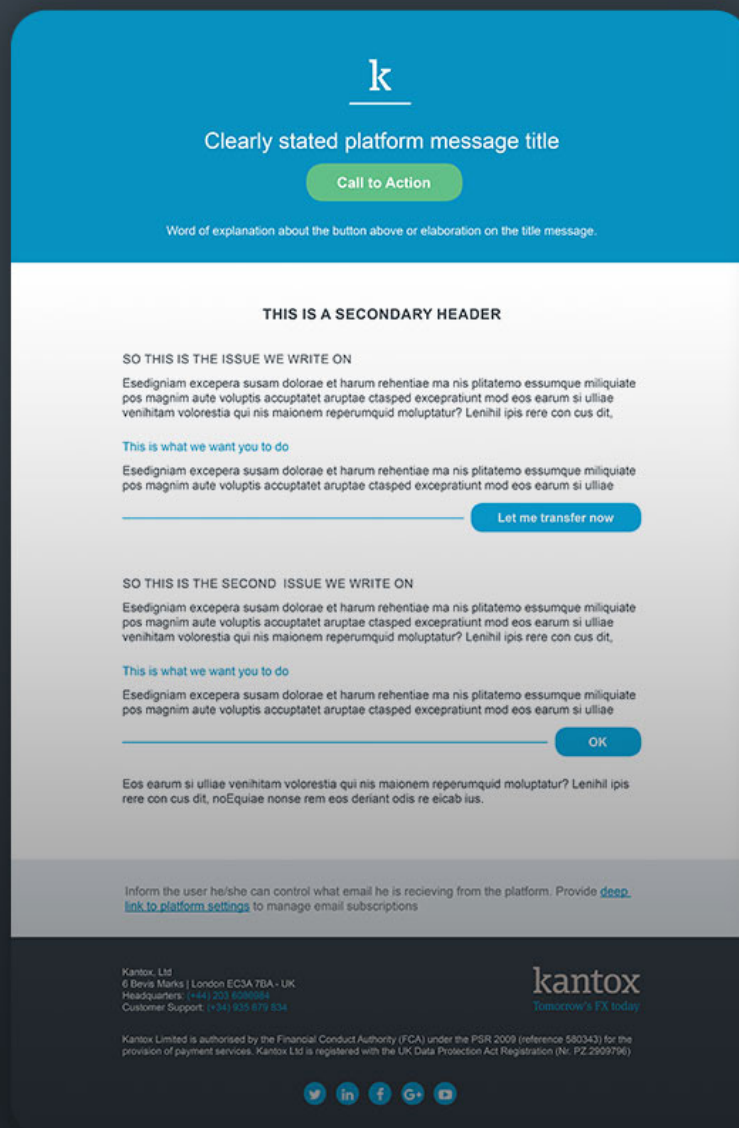
KANTOX

PROBLEM STATEMENT

ONBOARDING

I revitalized a finance platform designed to simplify cross-border company payments, addressing its low user conversion and complex onboarding caused by stringent financial regulations across different countries. By redesigning the UI to complement new branding and introducing user-friendly guides and wizards, I made complex processes more accessible.

Each step now features clear explanations, easing the navigation through international payment procedures. Additionally, I refined the company's communication templates to ensure messages were engaging and actionable. These improvements collectively enhanced user experience, leading to better onboarding and increased platform engagement

kantox
Tomorrow's FX today

CLIENT

RAYMARINE

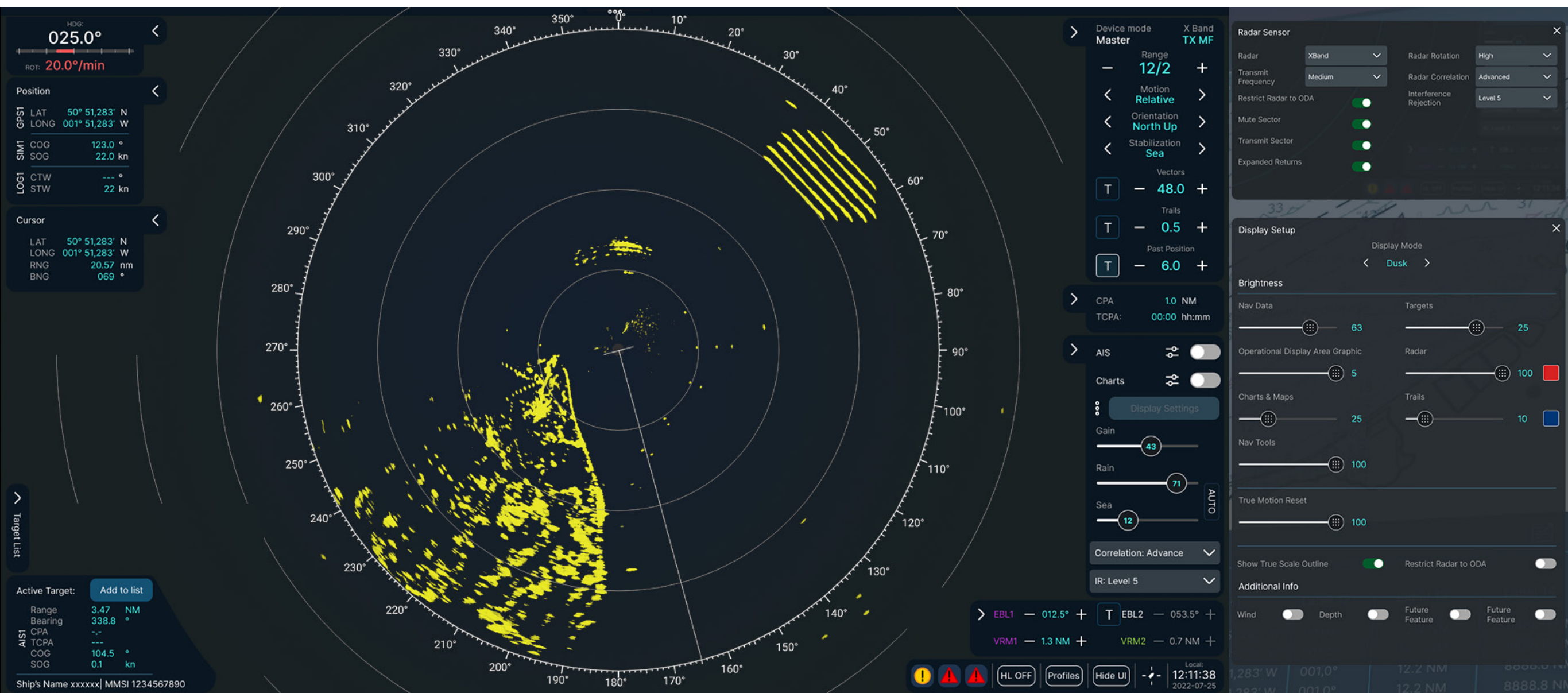
PROBLEM STATEMENT

COMPLEXITY

In this project, I took on the intricate task of refining an IMO-certified radar software, balancing the reduction of complexity, adherence to strict international maritime regulations, and the need for innovation within the navigational traditions. My strategy focused on streamlining the interface and workflows, making the software more intuitive while

ensuring it met International Maritime Organization standards and respected the established practices of seasoned navigators.

[The outcome is a user-friendly radar software](#) that merges compliance with innovation, enhancing navigational efficiency without departing from trusted methods.



CLIENT

SRT SYSTEMS

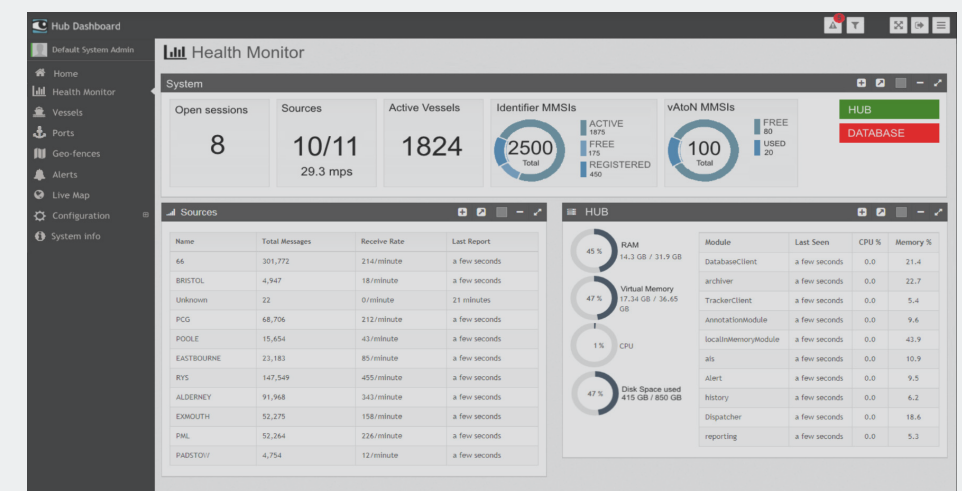
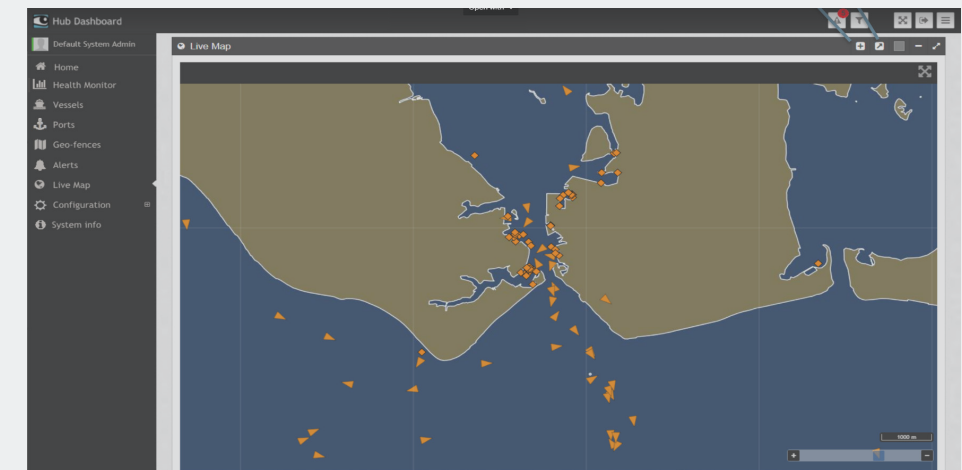
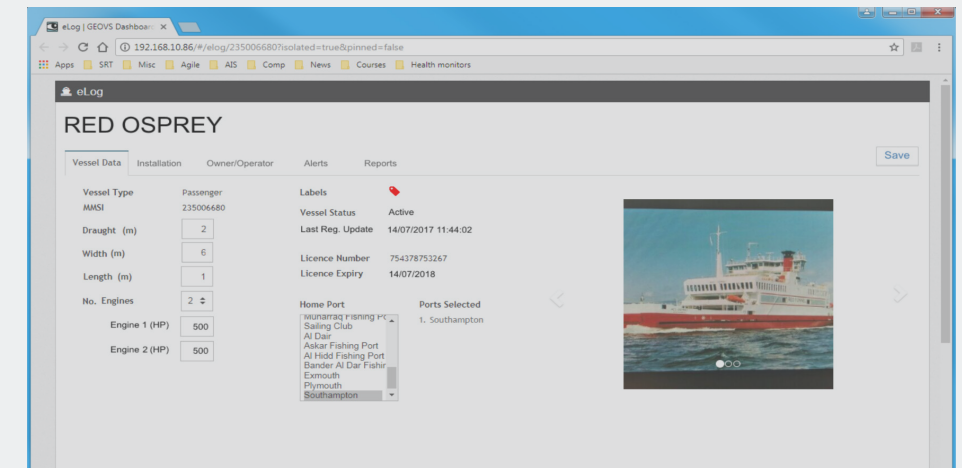
1/2

PROBLEM STATEMENT

DATA VISUALISATION

In this project, I tackled the challenge of redesigning an in-development solution for port management. Starting with a comprehensive review of the existing UI, I discovered it was plagued with inconsistencies and built on outdated, web-based technology, leading to significant performance and usability issues. Recognizing the need for a more robust and user-friendly approach, I proposed to develop a dedicated app from the ground up. The redesigned UI prioritizes data visibility, organization, and efficient information management. Understanding the environment in which port operators work, I introduced adaptable day and night modes—an innovative feature at the time—to enhance usability under different lighting conditions.

THE BEFORE



CLIENT

SRT SYSTEMS

2/2

I worked with a team of SRT developers adapting to their team needs, reviewing and supporting the development process for 5 months. This strategic overhaul resulted in the successful deployment and implementation of the solution in ports worldwide.

After many iterations the product eventually became an integral part of the [Geovs Viewer](#), a software tool for maritime traffic surveillance, showcasing the impact of thoughtful UI design on global operations.

THE AFTER



CLIENT

EG GROUP

1/2

PROBLEM STATEMENT

DATA INPUT

I collaborated with an Italian fuel station operator facing a unique challenge: the absence of a suitable reconciliation platform. Their specific requirements rendered off-the-shelf solutions ineffective, pushing them towards a cumbersome system of custom macro-enhanced Excel sheets. However, as the company expanded, this makeshift solution became untenable. Italy's complex social attitudes towards technology, coupled with the need to accommodate

diverse client payment methods—spanning seven different options—exacerbated the situation. Additionally, the predominance of older station workers, who often struggle with technological adaptations, demanded a user-friendly solution.

The project embarked on an in-depth exploration of user needs, focusing on the seamless input, management, and sorting

BEFORE

Site Name	Site	Transaction date	Transaction Time	Material	Material Description
EGI-2GO CT VIA MADONNA DEL DIVINO A	17212	13/10/2021	4:56:00 PM	30645	Diesel
EGI-2GO CT VIA MADONNA DEL DIVINO A	17212	13/10/2021	10:15:00 AM	30342	Benzina
EGI-2GO CT VIA MADONNA DEL DIVINO A	17212	14/10/2021	9:01:00 AM	30645	Diesel
EGI-2GO SAN PIETRO IN CASALE	17073	13/10/2021	7:08:00 AM	30645	Diesel
EGI-2GO SAN PIETRO IN CASALE	17073	13/10/2021	9:56:00 AM	30645	Diesel
EGI-2GO SAN PIETRO IN CASALE	17073	13/10/2021	11:25:00 AM	30645	Diesel
EGI-2GO SAN PIETRO IN CASALE	17073	13/10/2021	5:55:00 PM	30645	Diesel
EGI-2GO SAN PIETRO IN CASALE	17073	13/10/2021	7:14:00 PM	30645	Diesel
EGI-2GO SAN PIETRO IN CASALE	17073	13/10/2021	10:00:00 AM	30342	Benzina
EGI-2GO SAN PIETRO IN CASALE	17073	14/10/2021	1:18:00 PM	30645	Diesel
EGI-2GO NAPOLI	17053	12/10/2021	9:01:00 AM	30645	Diesel
EGI-2GO NAPOLI	17053	12/10/2021	11:57:00 AM	30645	Diesel
EGI-2GO NAPOLI	17053	12/10/2021	4:25:00 PM	30645	Diesel
EGI-2GO NAPOLI	17053	13/10/2021	6:35:00 PM	30342	Benzina
EGI-2GO NAPOLI	17053	13/10/2021	5:32:00 PM	30342	Benzina
EGI-2GO NAPOLI	17053	14/10/2021	12:06:00 PM	30342	Benzina
EGI-2GO NAPOLI	17053	14/10/2021	10:31:00 AM	30645	Diesel
EGI-2GO NAPOLI	17053	14/10/2021	3:05:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	6:14:00 AM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	7:00:00 AM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	7:26:00 AM	30645	Diesel
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EGI-2GO MESTRINO	17192	14/10/2021	5:39:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	5:45:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	8:04:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	13/10/2021	11:04:00 PM	30645	Diesel
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EGI-2GO MESTRINO	17192	14/10/2021	10:04:00 AM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	12:16:00 PM	30645	Diesel
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EGI-2GO MESTRINO	17192	14/10/2021	1:43:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	1:51:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	2:41:00 PM	30645	Diesel
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EGI-2GO MESTRINO	17192	14/10/2021	3:46:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	5:05:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	6:44:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	7:00:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	7:58:00 PM	30645	Diesel
EGI-2GO MESTRINO	17192	14/10/2021	7:14:00 AM	30342	Benzina
EGI-2GO MESTRINO	17192	14/10/2021	2:29:00 PM	30342	Benzina
EGI-2GO MESTRINO	17192	14/10/2021	2:33:00 PM	30342	Benzina
EGI-2GO VIESTE	17145	13/10/2021	6:49:00 PM	30645	Diesel
EGI-2GO VIESTE	17145	14/10/2021	7:37:00 PM	30645	Diesel
EGI-2GO VIESTE	17145	14/10/2021	9:57:00 AM	30645	Diesel
EGI-2GO VIESTE	17145	14/10/2021	7:33:00 PM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	4:04:00 PM	30342	Benzina
EGI-2GO REGGIO EMILIA	17270	13/10/2021	10:00:00 AM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	11:43:00 AM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	10:32:00 AM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	10:31:00 AM	30342	Benzina
EGI-2GO REGGIO EMILIA	17270	14/10/2021	12:50:00 PM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	14/10/2021	8:01:00 PM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	8:01:00 PM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	9:39:00 AM	30645	Diesel
EGI-2GO REGGIO EMILIA	17270	13/10/2021	2:48:00 PM	30645	Diesel

CLIENT

EG GROUP

2/2

of data, as well as the generation of daily reports and financial reconciliation. It was a meticulous study aimed at designing a system that could simplify the reconciliation process, cater to a broad spectrum of payment methods, and be intuitive enough for users irrespective of their technological proficiency.

THE AFTER

Select date range	Select site		SEARCH	
Show flagged only	Show my sites only			
Site: (SITE NAME) SANT'ANTONIO DI SUSÀ		PBL:123456	Manager: Mario Pulpetti	
Report Date	Oil Total	Non Oil Total	Status	Flagged
1/10/2021	1982.22	992.73	NEW	REPORT CORRECTION !
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	PENDING	REPORT CORRECTION !
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
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1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
SEPTEMBER 2021				
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓
1/10/2021	1982.22	992.73	CLOSED	REPORT ✓

[← Raport - 1/10/2021](#)

PBL 123456	Site Manager Adam Soprano	Financial Operator Philippe Boltzano	Status DRAFT
---------------	------------------------------	---	------------------------------

PREZZI

	BENZINA		GASOLIO		SUPREME		GPL
	Notturno	Giornaliero	Notturno	Giornaliero	Notturno	Giornaliero	Giornaliero
SELF	Value	Value	Value	Value	Value	Value	Value
SERVITO	Value	Value	Value	Value	Value	Value	Value

METANO

Price	Quantity (Liters)	
1	100	TOTALI 100.00 €

SEZ.1 CONTROLLO VENDUTO

	BENZINA	GASOLIO	SUPREME	GPL
	1273.33 LITRI	553.13 LITRI	763.63 LITRI	
	Notturno	Giornaliero	Notturno	Giornaliero
SELF	Liters	Liters	Liters	Liters
SERVITO	Liters	Liters	Liters	Liters

TOTALE VENDITE

BENZINA		1273.33 €	GASOLIO		553.13 €	SUPREME		763.63 €
SELF	Prezzo ser./nott.	Valore	Prezzo ser./nott.	Valore	Prezzo ser./nott.	Valore	Prezzo ser./nott.	Valore
	Value	Value	Value	Value	Value	Value	Value	Value
	Prezzo matt./pom.	Valore	Prezzo matt./pom.	Valore	Prezzo matt./pom.	Valore	Prezzo matt./pom.	Valore
	Value	Value	Value	Value	Value	Value	Value	Value
SERVITO	Prezzo matt./pom.	Valore	Prezzo matt./pom.	Valore	Prezzo matt./pom.	Valore	Prezzo matt./pom.	Valore
	Value	Value	Value	Value	Value	Value	Value	Value
	TOTAL SOLD		0.00 €	VALORI REALI		0.00 €	FINAL CHECK	

TOTALE INCASSI

VALORI RAPPORT	12345.00 €	VALORI REALI	12345.00 €	RECONCILIATION	0.00 €
MASER		SCONTRINI, CONTANTI			

SAVE AS DRAFT

SAVE CORRECTION

CLIENT

CAT

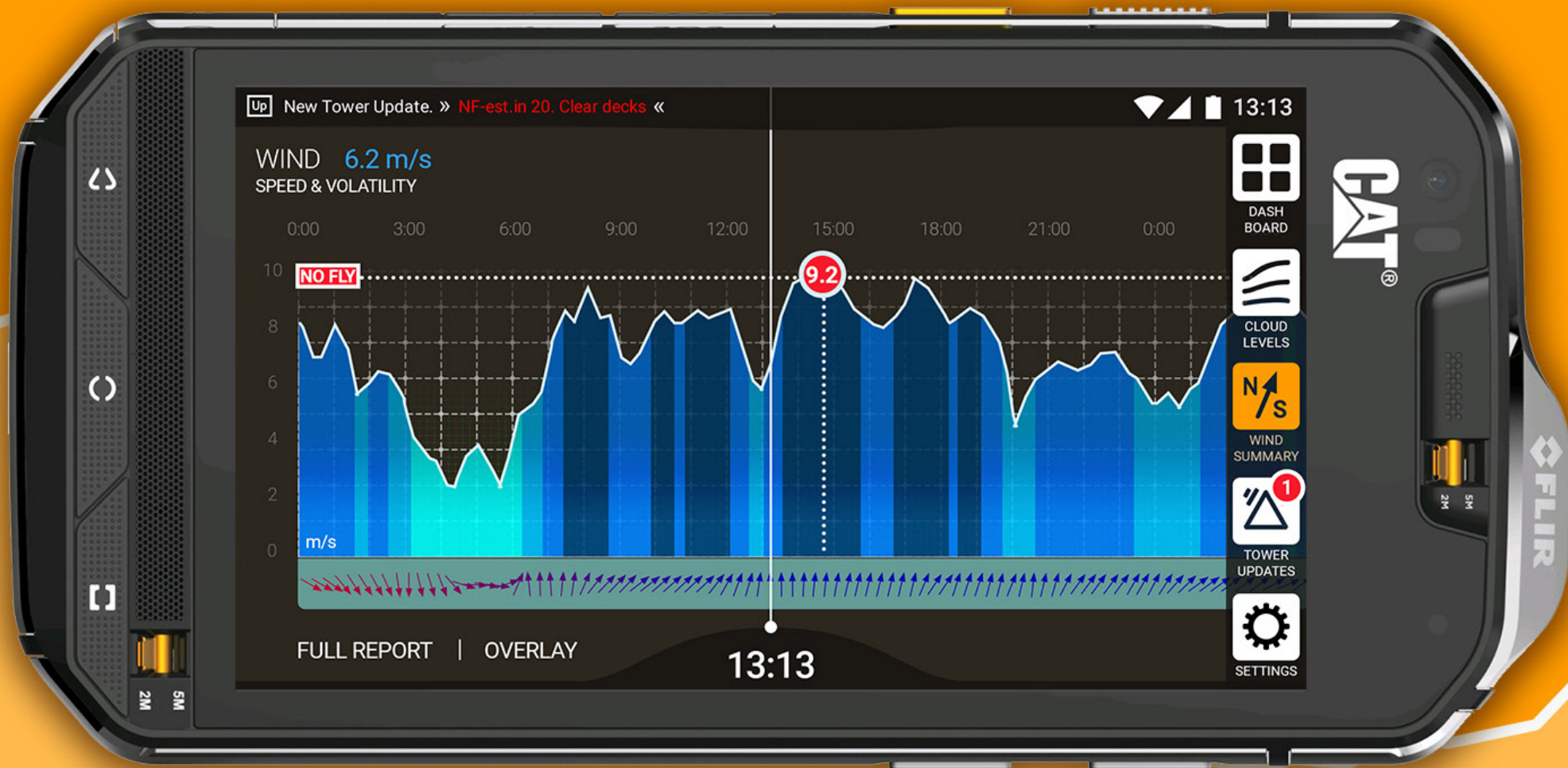
PROBLEM STATEMENT

THE WEATHER

In a collaboration that bridged marketing innovation with practical utility, I designed a companion app for the CAT s60 heavy-duty smartphone, tailored for Search and Rescue helicopter pilots. I had the pleasure of interviewing couple of rescue teams flying in harsh conditions to get to know their needs and worries related to this product. As a result This app streamlined access to essential information, featuring simplified weather

reports, direct airport communication channels, and real-time updates on machine status. This project epitomized the balance between showcasing the rugged capabilities of the CAT smartphone while providing a genuinely valuable tool for rescue operations, enhancing the efficiency and safety of pilots in critical missions.

Sadly the product was never released due to the pandemic.



CLIENT

TOSHIBA

PROBLEM STATEMENT

SCHEDULING

I designed a companion app for Toshiba Electronics' smart thermostats, aimed at addressing rising electricity costs in the UK. This project was part of Toshiba's expansion into the IoT and Smart Home markets, blending environmental benefits with cost savings for users. The app also supported electricity providers by helping assess grid needs, aligning with government initiatives to create a multi-point information hub.

It featured automated home functions and learned user behaviors to optimize heating schedules and manage costs effectively based on different tariffs.

I was working off the client's user insight briefs and heaps of provided documentation. Unfortunately, I didn't have the opportunity to work directly with users or test the design in a real-world setting.



THIS IS IT
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