

TELMO AMARO

CONTRACTOR

Portuguese engineer with 20+ years of experience working remotely developing software-centric products for multiple industries. Holds a masters degree in Aeronautical Engineering.

"I specialize in empowering entrepreneurs by transforming ideas into tangible software solutions, leveraging over two decades of expertise and a continuous drive for innovation."

TELMO AMARO | itcontractor.telmoamaro.com



SERVICES

PRODUCT DEVELOPMENT

As a seasoned expert in proof of concept studies, prototype development, and MVP creation, I specialize in catapulting startup founders into the limelight of investor interest.

FRONTEND SOFT. DEVELOPMENT

I provide full-cycle app development, offering expertise in crafting, publishing, modifying, and maintaining high-quality apps.

BACKEND SOFT. DEVELOPMENT

From meticulous backend planning to robust database creation, seamless API development, and effortless integration with mobile apps and various hardware, I offer a comprehensive suite of solutions.

HARDWARE INTEGRATION

I seamlessly integrate diverse hardware types such as IoT, Drones, Robotics, BLE devices, and more with tailored, custom-built software solutions.



SKILLS

SOFTWARE DEVELOPMENT

PROGRAMMING

- Ruby on Rails (5,A)
- Swift (6,A)
- Objective-C (9,A)
- C / C++ (3,A)
- Java for Android (12,A)
- Python (1,A)
- .NET framework (2,D)
- C# (2,D)
- Java 2 Enterprise Edition (2,D)
- Java 2 Standard Edition (3,D)
- Java 2 Mobile Edition (10,D)

PLATFORMS

- iOS (11,A)
- Android (12,A)
- Arduino (3,A)

OPERATING SYSTEMS USE

- Windows (always)
- Mac OSX (since 2010)
- Linux / Ubuntu (since 2013)

DATABASES

- SQLite (12,A)
- PostgreSQL + Postgis (5,A)
- SQL Server (2,D)
- MySQL (2,D)
- Crate.io (2,D)

THIRD-PARTY SERVICES

- AWS - EC2 (2,D) / S3 (3,A)
- Firebase (3,A) / Parse (1,D)
- Maps: Google/Apple/OSM (10,A)

(x,A) years of frequent use, Actively using

(x,D) year of frequent use, Dropped its use in favor of other tech - Capable of restart using again if necessary after one to three weeks of knowledge update.



WORK HISTORY

INDEPENDENT CONTRACTOR

2010-present: Software-Centric Product Developer (mobile, web, firmware, other) for multiple clients' projects @ Start-ups, other Soft. development firms, multiple small businesses, Portuguese Municipalities, etc.

AERONAUTICAL ENGINEERING

2020-2023: Project Manager & Soft. Architect of Aircraft Maintenance Tracking Platform @ AIRNAVCO

2008-2009 : Development of Numerical Simulation Software for Performance Studies of Hybrid Rocket Engines @ Universidade da Beira Interior (Portugal)

LEAD SOFTWARE DEVELOPMENT

2022-2024: Lead developer @ EVSerious

2009-2010 : Lead Soft. Architect/Fullstack developer at LocateU project (people and assets tracking platform) @ BeGenius (Portugal)

SOFTWARE TESTING

2009 : Unit Tester for subsystem (Real-Time Monitoring and Control) of ESA's GALILEO @ Skysoft (Portugal)

GAME DESIGN & DEVELOPMENT

2002-2008 : Indie Java Mobile Game Developer

2003-2006 : Java Mobile Game Developer & Game Designer @ CSP-Mobile and MaxArtists (Germany)



ENGINEERING

ACADEMIC BACKGROUND

AERONAUTICAL ENGINEERING

Master's degree

- University
- From 2007 to 2009
- Institution: Universidade da Beira Interior

AERONAUTICAL ENGINEERING

Licenciate degree

- University
- From 2003 to 2008
- Institution: Universidade da Beira Interior

SCIENCE & TECHNOLOGY

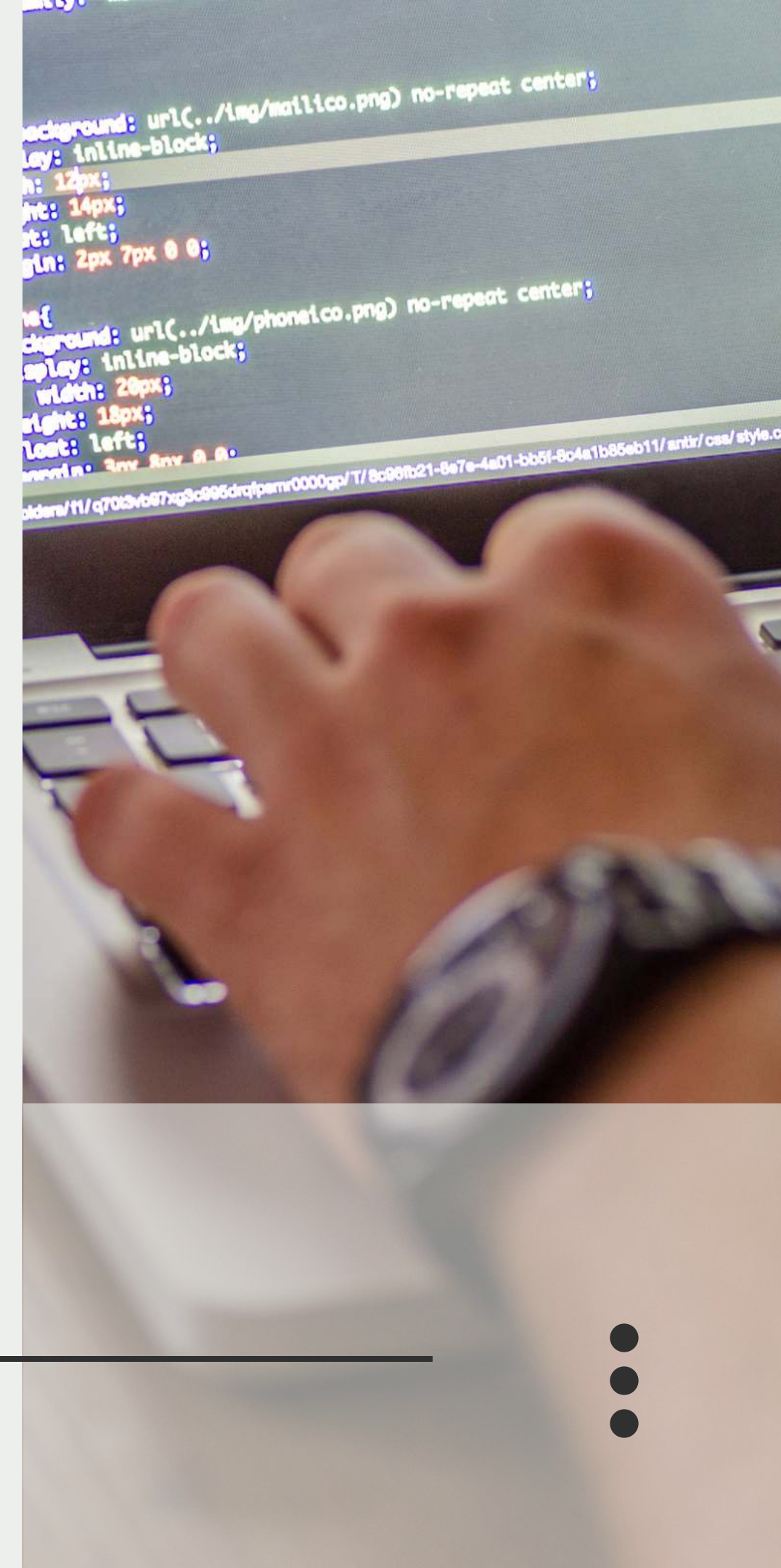
Secondary education

- High School
- From 2001 to 2003
- Institution: Escola Secundária José Falcão



PORTFOLIO

FIVE EXAMPLES OF RECENT WORK ...



SYNCHRONOUS CONTENT DELIVERY APP FOR VIEWERS OF A DRONE SHOW

The app is used by viewers of drones' light show. It enhances the experience by delivering synchronous storytelling content to large crowds.



Friendly reminder:

1. We kindly request our guests to keep quiet during the show.

TASKS DONE

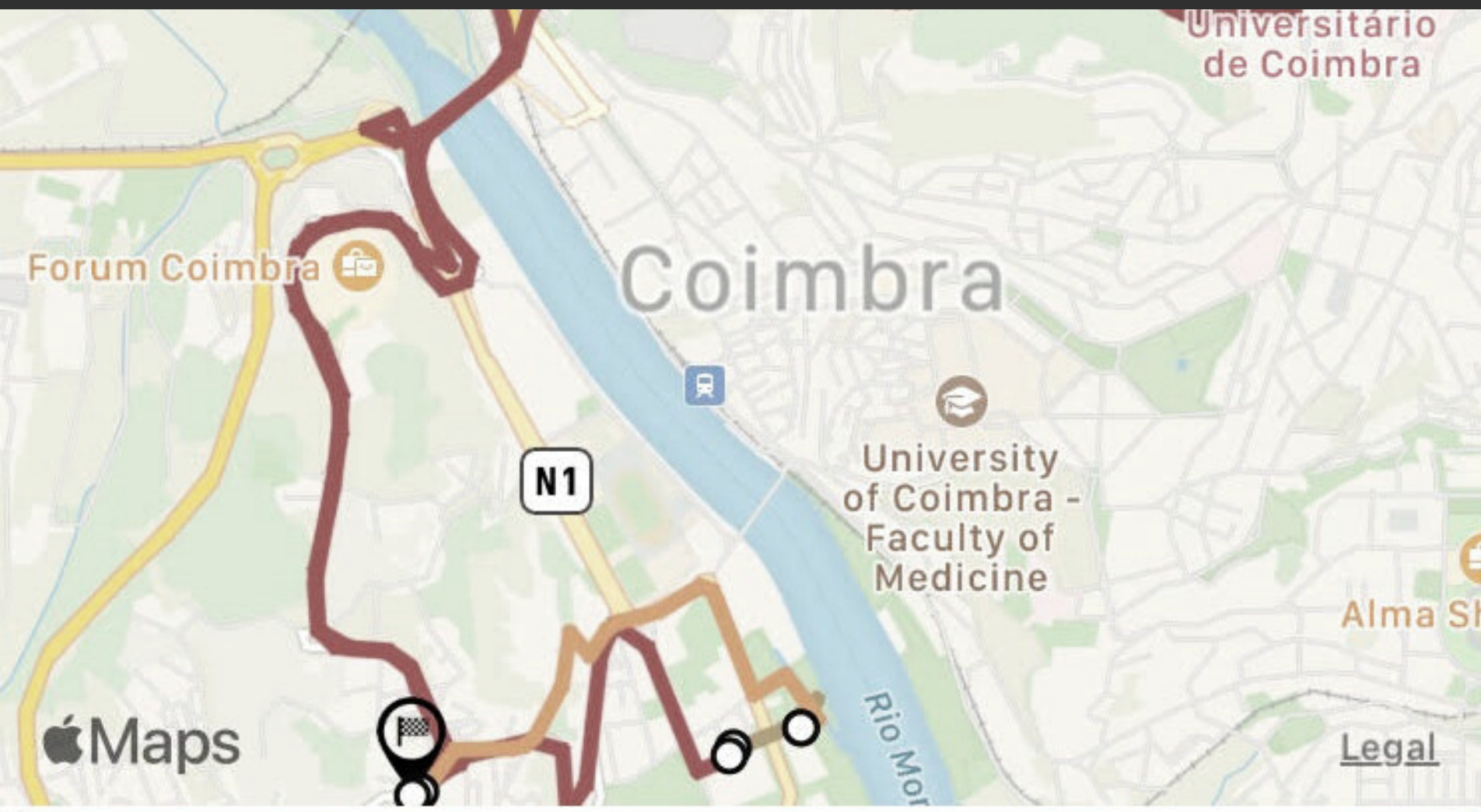
Technical innovation, Planning and Implementation of a Proof of Concept, which included:

- Android app prototype; Method to locate users while outdoors and indoors, with a precision of approximately 2 meters; Synchronous delivery of sound, image, text, and video to devices with various specs and connection speeds;
- Capability of playing location and time-sensitive content. Also featuring Augmented reality features.



TRAVEL MODAL DETECTION SDK

Native iOS and Android SDK that runs in background to detect multiple types of private and public transportation modes used by the phone's owner.



TASKS DONE

Full development of iOS SDK in Objective-C. Development of end-user apps in Swift. Development of Android SDK and end-user apps. Development of frontend/backend websites and APIs using Ruby on Rails. Maintenance activities of legacy systems in Java.



IOT DEVICE TRACKING PLATFORM

IoT device for finding missing pets and all supporting software systems.



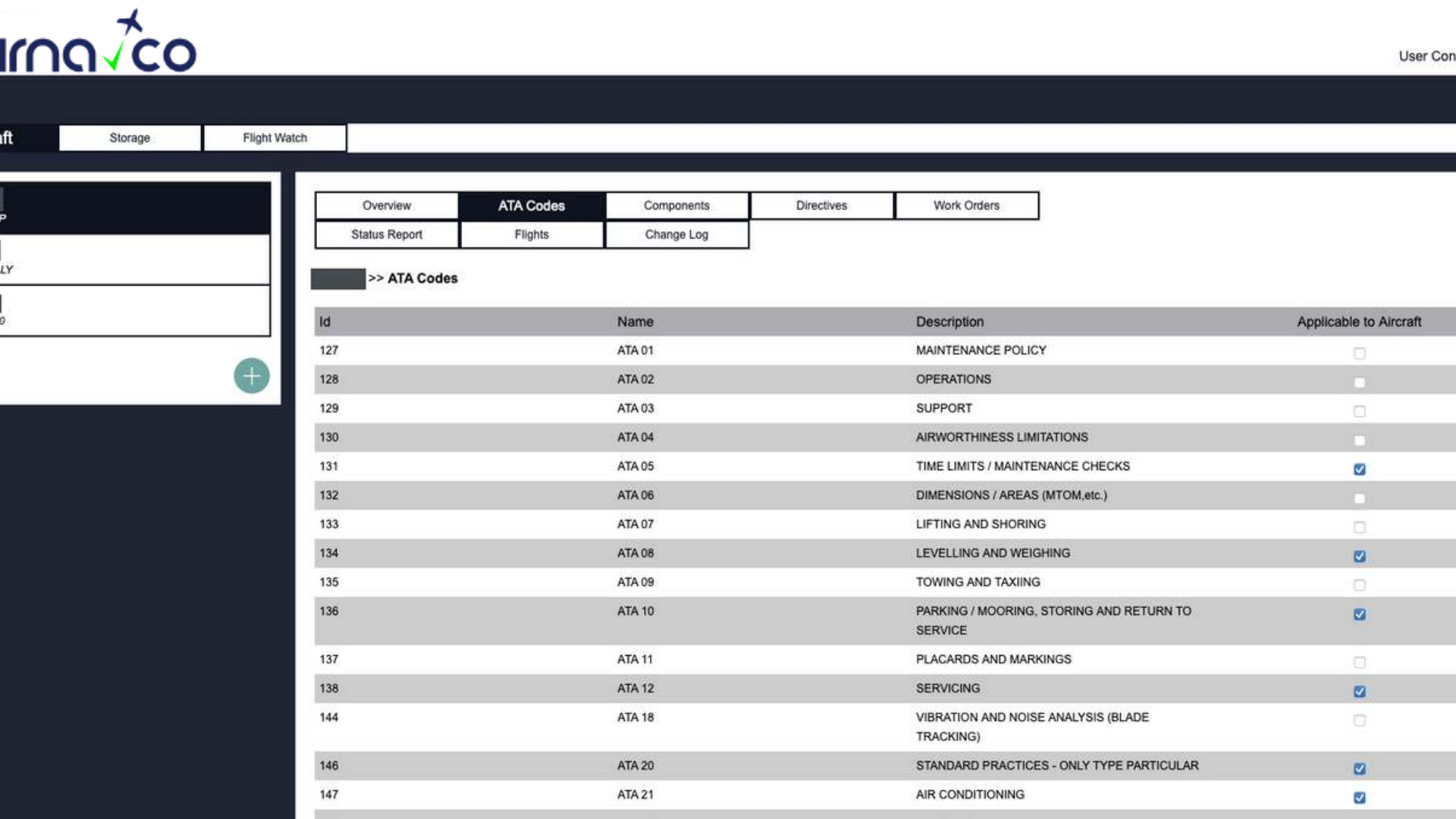
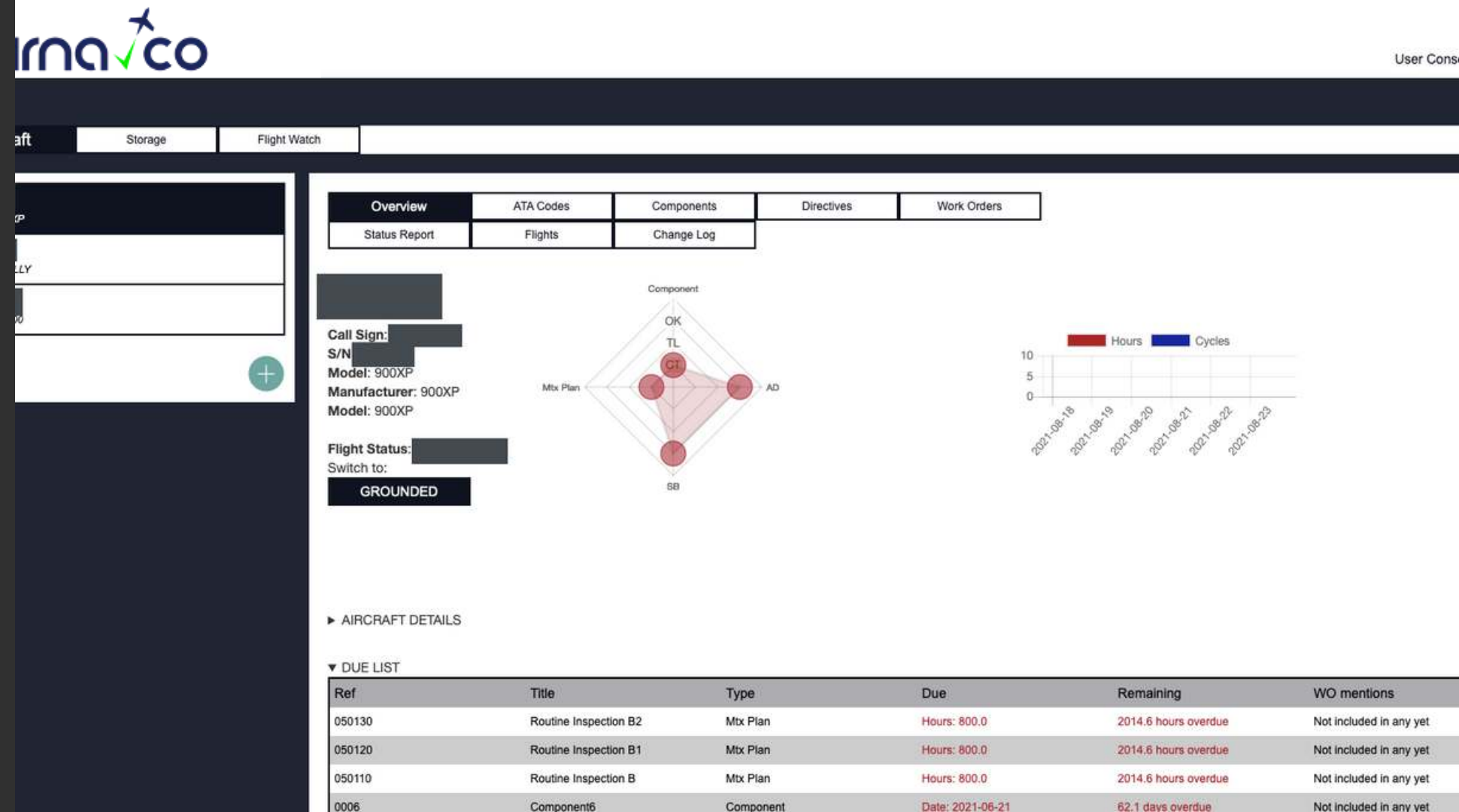
TASKS DONE

Product planning. Software and IoT Architecture design. Full software development of iOS and Android native apps. Full software development of frontend/backend websites, including APIs use to control IoT devices via the mobile apps. On-going development of version 3 hardware product.



AIRCRAFT MAINTENANCE TRACKING PLATFORM

Web platform used to track maintenance activities of multiple operators of aircraft. Features tracking of activities of both maintenance engineers and pilots.



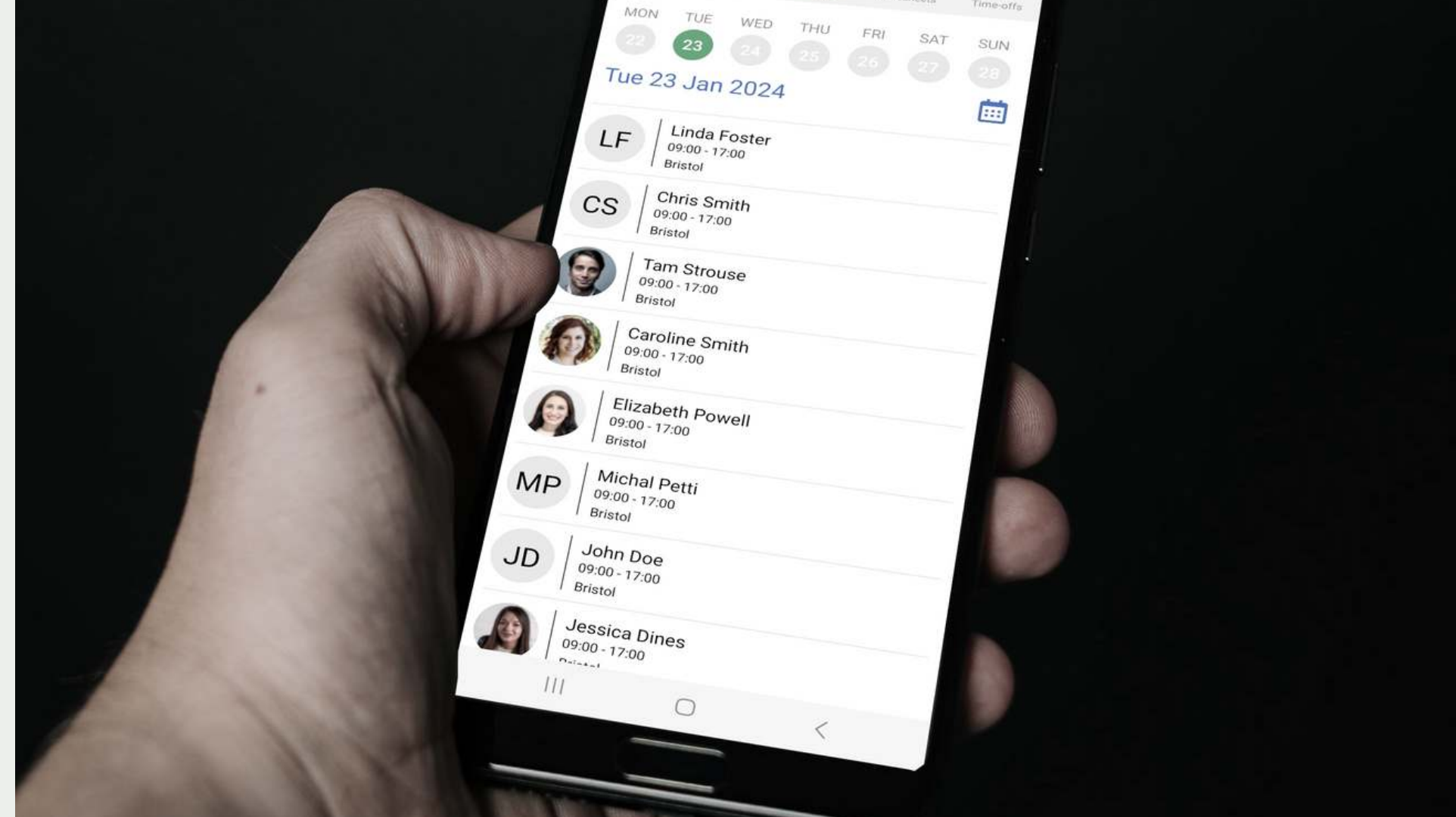
TASKS DONE

Product planning. Architecture. Full software development in Ruby on Rails. On-going support for aeronautical engineers' activities.



HUMAN RESOURCES MANAGEMENT APPS

3 mobile apps for tracking employee work times, manage shifts, request time-off, and more...

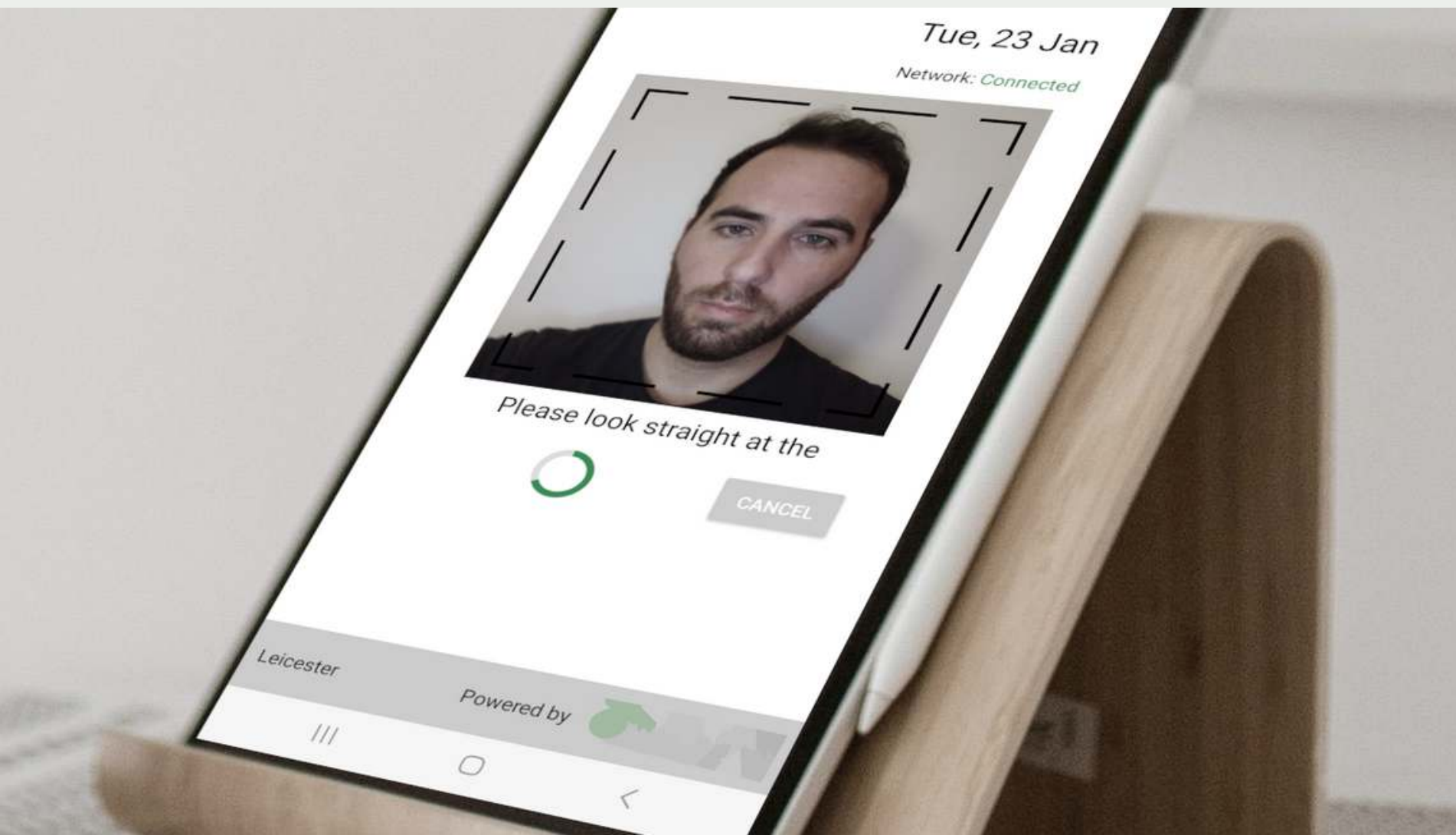


TASKS DONE

Fully developed 3 native mobile apps:

1st app : Android app for tablets which would perform facial recognition of employees and record their start and finish shift times - Robust (always on) app; As simple as it gets UI/UX for everyday effortless use.

2nd app : Allows employees to see their work times, time-off calendar, shifts and more. One version was built for Android phones with Java, and the other for iOS with Swift+SwiftUI.



CLIENTS' FEEDBACK

"Telmo's work on my project was of the highest quality. I would highly recommend anybody to hire him for any IOS or Android work that you need doing.

It's not very often that you encounter someone with the skills, the vision and the attitude to ensure that the finished product is A+. Thank you!" - Mitchell L. (United Kingdom)

"My second carry-over project with Telmo was excellent. As expected, very professional and thorough. Anyone looking for App development will find that Telmo is perfect; clean code, fast turnaround times, excellent follow-up support, lots of experience to help guide you smoothly through the process. It was a completely worry-free experience and I would highly recommend Telmo as a developer and as a top-quality professional who is a pleasure to work with." - Andy B. (Belgium)

"A great job. High quality and fast delivery." - Muhammad A. (United Kingdom)

"Very happy with the level of customer service." - Rita A. (Portugal)

"Another exceptional project by Telmo. I am very happy with the result. He delivered the project quickly and as always on budget. He is a good man." - James Z. (New Zealand)

"Telmo was very helpful and quick to respond to any question/request. I'm looking forward to working with him in the future, great freelancer." - Martin O. (South Africa)

"Telmo was a pleasure to work with. This was my first experience into the world of app development and he explained everything well and was patient answering all my questions. Telmo kept me informed with very regular updates, including the reason for a short delay. All four products met my expectations and there is excellent after-sales service also. I wholeheartedly recommend Telmo and his work." - Alice H. (United Kingdom)

"Very satisfied with the professionalism and the quality of work produced. Happy to recommend for other development." - David P. (Australia)



BENEFITS OF WORKING WITH TELMO

EXPERIENCE

20+ years of work experience in developing software for different industries.

FLEXIBILITY

Is knowledgeable in developing on multiple programming languages and platforms.

Multi-disciplinary engineering background.

CONVENIENCE

Can provide full technical solutions on short notice, thus reducing project management complexity.

PRICE

Hiring Telmo as an external contractor saves your company money by reducing employer related obligations and bureaucracy.





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