# Fábio Coelho.

## Process consulting and digital development



### From the workshop to digital development

I started building tools while designing moulds and coordinating production. A hard-to-find reference or a number copied onto the wrong drawing was often reason enough to rethink a process.

Today I work directly with businesses. I help teams find where they lose time, build applications around the way they work, and create websites that introduce their services to new customers.

Discuss a project ↗

# Where should we start?

A first conversation can start with something as simple as an order that passes through three people's hands before it reaches production.

## Follow the work

We follow one real example from start to finish. We look at where information comes in, who checks it and where someone has to enter it again.

## Choose one improvement

We might reorganise a form, connect two steps or build an application. We agree on what the first version should do and how the team will check the result.

## Try it with the team

We test a typical case and one where information is missing. That tells us whether the tool does the job and asks for help when it should.

### Helping businesses present themselves online

If you want to explain a service or make it easier to get in touch, we start with what your customers need to know. The work might involve a website, a service presentation or an animated email signature.

# Production approval.

Before manufacturing can begin, someone needs to check the drawing revision and prepare the approval document. I built a Windows application that brings the relevant information together so the reviewer can check the PDF before saving it.

How a document moves through the application

01 **Gather the details**

The drawing revision and administrative details form the basis of the approval document.

02 **Review the approval**

The reviewer checks the wording and positions the approval block in the document preview.

03 **Generate the PDF**

The reviewer saves the document. If a file already exists at the chosen destination, the application asks before replacing it.

### What changes for the reviewer?

They can check the revision, read the approval text and see exactly where the block will sit while there is still time to adjust it. The person responsible for the drawing retains the final decision.

# Drawing and calculation.

Preparing an engineering project can mean turning a model into a drawing or comparing components. I built a separate tool for each task.

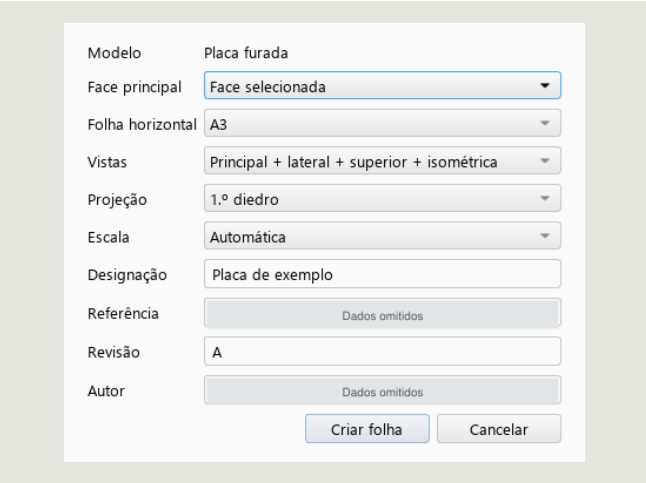
FreeCAD extension

## Prepare 2D drawing sheets

The designer selects the part, view and scale to prepare the sheet. The two screenshots show the main panel and the sheet setup window of the same extension.




View 1 · The extension panel groups the sheet, dimensioning and drafting tools.




View 2 · Setting the view, projection and scale. Both images are from a test project.

Windows application

## Calculate nozzle heights

The designer compares catalogue options using dimensions, series and quantities. They can save the calculation, export the figures to CSV or generate a report.

# Everyday tools for Outlook.

I built four independent tools for classic Outlook. Two file messages. The others help people choose the sending account and draft emails they write regularly.

File by project

## Find the project folder

The tool looks for project references in messages marked as complete. If it cannot identify the folder, it asks the user to choose a destination.

File by client

## Keep correspondence together

The subject, sender and message body help identify the client so the team can keep that client's correspondence together.

Sending account

## Choose the sender

The appropriate sending account is preselected for a new message or reply. The sender can change it before sending.

Email templates

## Draft recurring messages

For quote requests or approvals, the sender chooses the text and language, checks the message and attaches the documents.

### Separate tool · Project folder search in Windows

Point to a reference in an email, spreadsheet or PDF and use a shortcut to open the project folder in File Explorer. If several folders match, the tool lists the options.

# Checklists and project tracking.

I automated data entry and checklist preparation in Excel. I also built separate tools to help teams keep track of orders and projects.

Excel workbook · Standard systems

## Project review checklist

The sheet reads data from a QR code. The team records which points meet the requirements and which need a closer look before exporting the checklist to PDF.

Excel workbook · Monobico and VeriShot

## One workbook for two system types

The reviewer selects the system and the worksheet adapts its fields. They can import information from forms and documents, check the figures and complete the review.

Windows application

## Order reports

The user chooses a date range and gets a summary as text or an image. They can review it before sharing it on WhatsApp.

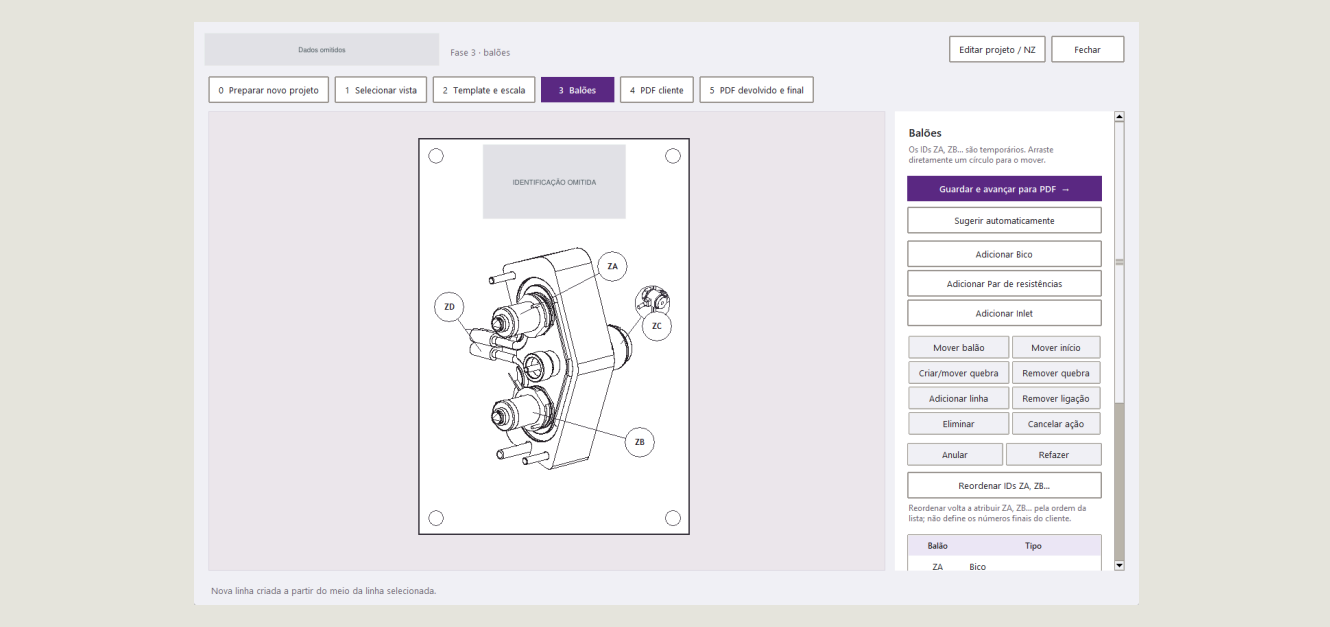
Pilot application

## Daily project assistant

Monitors project emails, helps prepare project files and flags unclear references for review. The same idea could be applied to following up on purchase orders or replies that a sales team is waiting for.

# From technical drawing to zone plate.

The designer uses one application from the first annotation to the production export. The customer receives a PDF in which to enter the zone numbers that should appear on the final drawing.



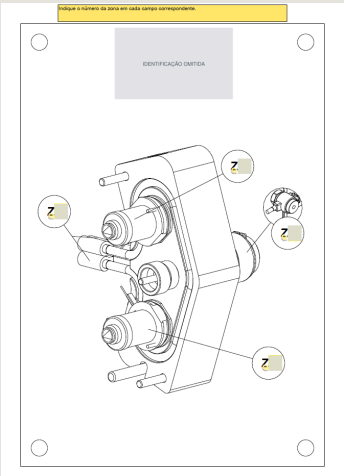

Each callout in the editor links a zone on the drawing to a field the customer will fill in. Anonymised screenshot.

## 1. Prepare the drawing for confirmation

The designer selects a DXF view, adjusts the scale and positions the callouts. The application generates a fillable PDF with one field for each zone.

## 2. Check and export

When the PDF comes back, the designer checks each zone number against its callout. Missing or duplicate numbers block the final PDF. Once confirmed, the PDF and DXF can be exported for production.




Detail from the PDF sent to the customer.

# One business, two points of contact.

For Ritmobediente, a transport and logistics business, I developed a website and an animated email signature. One introduces the services to potential customers. The other appears in everyday correspondence.




Visit Ritmobediente's website ↗




A frame from the signature. In the animated version, the lorry travels across the banner.

## Ana Lúcia Domingues · Clinical psychology

I built a website in English and Portuguese where visitors can learn about the psychologist, find information about consultations and get in touch. Visit website ↗

### What would you like to improve in your business?

Show me a task or tell me about an idea. Together we can work out a first step.
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