

# Paco Ferre

Lead Software Architect

## CONTACT

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Madrid

## SKILLS

### Languages & Frameworks

.NET Framework

.NET Core

ASP.NET

C#

Node.js

Golang

Rust

Python

TypeScript

JavaScript

Java

Solidity

Angular

React

VueJs

Devexpress

Angular Material

Bootstrap

Zurb Foundation

Google Polymer

Knockout

jQuery

D3.js

C

C++

Delphi

Pascal

Fortran

Lead Software Architect with nearly 35 years of professional experience building and leading technology across the full stack. Throughout my career, I have never stopped being hands-on with code — writing, reviewing, and refactoring alongside teams. Proven track record of driving technical strategy, scaling engineering organizations, and delivering enterprise software that continues to drive business operations decades later. Extensive experience with AI-assisted coding tools, agents, and MCP integrations. Former CTO at two mid-size companies and a startup. Currently working on technical initiatives for Straumann Group's enterprise healthcare platform.

## DevOps & Cloud

Azure

AWS

Atlassian Jira

Bitbucket

Confluence

Gitlab

CI/CD

Sonar

Cypress

Playwright

Docker

Kubernetes

## Databases

SQL Server

PostgreSQL

MySQL

Oracle

Cassandra

MongoDB

## Message Brokers

Azure Event Hubs

Azure Service Bus

Kafka

RabbitMQ

Microsoft MQ

## Operating Systems

Windows Server

Linux

FreeBSD

## Architecture & Leadership

System Design

Microservices  
Architecture

Technical Strategy

# Experience

## Lead Software Architect

Straumann Group

Jan 2022

Drive technical initiatives for Straumann AXS, the company's cloud-based digital ecosystem platform for dental treatment workflows. Within a 70+ engineer organization, I serve as the platform's primary technical reference across multiple teams, leveraging deep institutional knowledge from the project's inception. Assigned to the Restorative planning workflow team, also focused on critical platform services including file management, security, and user management. Drive cross-cutting technical improvements: performance optimization, technical debt reduction, observability, and architecture evolution. Maintain hands-on engineering practice with 3+ hours of daily coding, alongside PR and POC reviews, technical mentoring, and documentation.

Java

C# / .NET

React

Azure

Kubernetes

PostgreSQL

Copilot / GPT / MCP

## Software Architect

NEXPLORE

Sep 2020 - Dec 2021

Led architecture across a 70+ engineer organization working on multiple projects. Defined technical standards, architecture patterns, and best practices for large-scale software development. Conducted architecture reviews, mentored engineering teams, and drove technical strategy for complex enterprise systems.

.NET Core

Java

Python

Angular

GraphQL

RabbitMQ

MongoDB

## Chief Technical Officer (CTO) & Co-Founder

eYard Solutions

Mar 2019 - Aug 2020

As CTO and sole developer, designed and built a Terminal Operations System (TOS) MVP from requirements analysis through deployment. Built the full stack including legacy

Engineering  
Leadership

Team Building

Mentoring

Code Review

Architecture Review

Technical Debt  
Management

Performance  
Optimization

Scalability

Reliability  
Engineering

## Infrastructure & IaC

Terraform

Infrastructure as  
Code

Cloud Architecture

Monitoring &  
Observability

Prometheus

Grafana

ELK Stack

Log Aggregation

Distributed Tracing

## APIs & Integration

REST

GraphQL

gRPC

WebSockets

Event-Driven  
Architecture

Message Queues

API Design

database import system, yard visualization, and vessel voyage planning. Implemented reinforcement learning optimization for container placement based on dwell/operations time prediction. Established complete CI/CD pipeline and monitoring infrastructure.

## Software Architect / Full Stack Senior Engineer

AKKA Technologies (Axpo Group)

Apr 2018 – Feb 2019

Delivered two energy-market products for Axpo Group through AKKA Technologies. Led the migration and continued development of a structured energy market application and improved a customer portal, combining architecture ownership with hands-on full-stack engineering.

Angular

ASP.NET / ASP.NET Core

C#

Entity Framework

SQL Server

Angular / Vue.js

TypeScript / Node.js

ASP.NET Core

C#

CQRS / MediatR

Cypress

SQL Server

## Software Architect / Full Stack Senior Engineer

Plain Concepts S.A.

Jan 2017 – Mar 2018

Led architecture and hands-on delivery across enterprise modernization projects, including two phases of a legacy Access-to-.NET migration and Angular and Vue.js applications built over existing APIs. Coordinated technical direction and delivery across client teams.

## Technical Team Lead / Software Architect / Full Stack Senior Engineer

Alxia Consultoría e Innovación S.L.

Dec 2015 – Dec 2016

Led technical delivery for a Diners Club migration from AS/400 to .NET and built a custom point-of-sale system for Kiwoko. Combined architecture, team leadership, and hands-on full-stack development.

ASP.NET Core / MVC

C#

Entity Framework

Google Polymer

SQL Server

Microsoft Dynamics NAV

Integration Patterns

Apollo Federation

## LANGUAGES

**Spanish** • Native

**English** • Fluent  
(Spoken, Read, and  
Written)

## Freelance Technical Team Lead / Software Architect

Micromouse S.L.

May 2012 – Dec 2015

Led diverse projects for Micromouse and its clients, including the complete rewrite of the company's CRM system (originally built in 1995). Developed fax delivery solutions for major clients including Telefonica and Allfunds Bank. All systems remain in production use today.

ASP.NET MVC / Web API

C#

jQuery

SQL Server / Oracle

Active Directory

Zetafax

## Software Quantitative Engineer – Freelance

NDA

Jan 2015 – Jun 2015

Development and evaluation of automated quantitative trading systems for currency futures markets.

NinjaTrader / C#

MetaTrader / MQL

Python

TensorFlow

## Concurrent Freelance Software Engineer

Selected Independent Engagements

May 2011 – Dec 2016

Completed short, concurrent engagements including an enterprise storage portal for Micromouse clients, an ERP for a fashion retail network through Edetronik, and an international rail availability and reservation system for Gowaii.

ASP.NET MVC / Web API

C#

Workflow Foundation

SQL Server

Windows FSRM / NetApp / EMC

## Chief Technical Officer (CTO)

Grupo LCC Calidad S.A.

Sep 2006 – Nov 2012

Returned to LCC as CTO in 2006 and led the development team through a complete rewrite of the company's Visual Basic application suite in ASP.NET. Expanded the platform with document management, CRM capabilities, and a customer web portal. The system remains in production use today.

## Chief Technical Officer (CTO)

## Castellana Subastas Holding S.A.

Aug 2001 – Aug 2006

As CTO, led the company's digital transformation from inception. Built the complete software suite for business lifecycle management, including the first website for auction companies with real-time online catalogs and live bidding data. Established the technical foundation that drove the company's growth and competitive advantage.

## R&D Consultant

Coritel S.A.

Nov 2000 – Jul 2001

Developed and consulted on new corporate applications, providing technical architecture guidance and implementation support for enterprise software projects.

## Software Engineer

LCC S.A.

Mar 1998 – Oct 2000

Built the first Visual Basic version of LCC's ERP, covering customers, budgets, work orders, laboratory tests, and billing. Also developed automated customer test-result reporting that saved thousands of hours of manual work annually. Returned in 2006 as CTO to lead the platform's full ASP.NET rewrite.

Visual Basic 5–6

Access 97

SQL Server 7

## Freelance Software Engineer

Serikat S.A. (Gómez-Acebo & Pombo and Fernando Durán)

Oct 1997 – Feb 1999

Developed legal case-management and accounting software for Gómez-Acebo & Pombo and contributed to an auction-management ERP for Fernando Durán through Serikat.

Visual Basic 5

SQL Server 6.5

Access 97

## Software Engineering Intern / Independent Software Engineer

Selected Early-Career Experience

Jul 1992 – Sep 1997

Began my professional software career at Beckman Instruments, contributing to CRM software and building internal database, resource-planning, and help-desk tools. Subsequent experience included university IT support, access-control and device-integration software, business applications for independent clients, and programming and systems courses taught while completing a Mathematics degree.

FoxPro

Visual Basic

C / Z180

Delphi

Windows NT

# Projects

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## AXS Portal

Cloud-based digital ecosystem platform for dental treatment workflows. Integrates intraoral scanning, AI-powered treatment planning, guided surgery services, prosthetics, and 3D printing into unified end-to-end workflows. Open, modular architecture supporting Straumann and third-party devices, software, and services. Enables seamless data sharing among dental labs, clinicians, and specialists. Responsible for architecture decisions, development support, code reviews, and feature development within a 70+ engineer organization.

## eYard Container Optimization

Terminal Operations System (TOS) MVP built from scratch as CTO and sole developer. Requirements analysis, legacy database import, yard visualization, and vessel voyage planning. Reinforcement learning optimization for container placement using dwell/operations time prediction. Full CI/CD pipeline and monitoring with GitLab, Docker, Sentry, Grafana, and Prometheus. Won the AI category at Gulftainer's Future of Ports 2021 pitch event (2,000+ applicants from 200+ cities), earning a pilot project with the world's leading container terminal operator.

## Auction Platform

Digital transformation of Castellana Subastas: complete software suite for business lifecycle management, first website for auction companies with real-time online catalogs.

## LCC ERP & Quality Portal

Complete ERP and web-based quality management system with CRM and Customer Web Portal. Still in production.

## Education

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### Universidad Autónoma de Madrid

Degree in Mathematics

Jan 1991 – Jan 1996

## Selected Courses

### Ethereum Contracts Development with Solidity

2018

### Process Mining

2015

### Neural Networks for Machine Learning

2012

### Machine Learning

2011

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