# Dionisio González Balsera

I used to consider myself a 'software engineer', but the reality is that I simply enjoy solving problems combining software and technology

⊕ Northglenn, Colorado, US

dgonzalez@dgcode.net • (303) 720-6515 • https://linkedin.com/in/dionisio-gonzalez-balsera

## About

I am a Spanish Software Engineer living in the United States. Throughout my 20 years of experience in the software industry, I have worked in development teams as an employee and have also created my own companies and projects. Approaching the midpoint of my professional career, and with the wealth of knowledge accumulated thus far, I currently assist other companies in developing their software solutions and achieving their objectives

## Experience

### Freelancer
Software Engineer

2022 — Present

Since the beginning of 2022, I have been working as an independent software solutions creator helping other companies develop their projects and meet their objectives. I have collaborated with companies from different sectors such as: Laboratory Devices, Water Supply, as well as with some startups that are in the initial stages of their products. At the end of 2023 I changed my residence to the United States and, since then, I have been developing my career from this part of the world.

### Proenter Accesos Inteligentes
Software Engineer

2017 — 2022

Company Founder (50%)

A year and a half after my first venture, I decided to create a second company to carry out a new project. At Proenter Accesos Inteligentes, for 5 years, I worked on creating a complete residential access control solution based on RFID technology. The solution, based on a Cloud architecture, was composed of an IoT control unit, a web control panel, a mobile app, and a Windows Forms application. I designed the system, managed the development team, and participated in the implementation of the different parts.

### Blue Flow Systems
Software Analyst/Developer

2016 — 2019

Company founder (100%)

Called by the desire to start my own business, in 2016 I left my job of 11 years and started a small software company. Its focus was to offer web development and hosting services for other small businesses. I managed the company and worked as an analyst/developer for the projects.

### Sistemas Avanzados Telecom Levante
Software Analyst/Developer

2005 — 2016

For my first 11 professional years, I worked as a software analyst / developer in a telecommunications company designing and implementing remote control and telemetry systems. I coordinated and maintained the software for one of the company's main clients.

## Education

**University of Alicante (Spain)**
Software Engineering
Bachelor

1998 – 2005

**Other Courses**

| | |
|---|---|
| Microsoft Power BI and Power Virtual Agents | 2024 |
| Microsoft Power Platform for Custom & Automated Solutions | 2024 |
| Industrial IoT on Google Cloud Platform | 2020 |
| Architecting with Google Cloud Platform | 2019 |
| Elastic Cloud Infrastructure | 2019 |
| EUCIP (European Certification of IT Professional) | 2010 |
| CompTIA RFID – Radiofrequency Identification | 2008 |
| Cisco Certified Network Associate Security | 2008 |
| Cisco Certified Network Associate (CCNA) | 2008 |

## Projects

### PRESS**** •    ⊕ US

Control software for a stand alone high pressure booster device

VB.NET
Windows Forms
Windows Services

Created the solution

### DIFF**** •    ⊕ US

Monitoring, control, and data acquisition software for a Materials Charaterization by Differential Pressure system

VB.NET
Windows Forms
Windows Services

Created the solution

### VST***** •    ⊕ US

Monitoring, control, and data acquisition software for a Water and Organic Vapors Wide Range Isotherms system

VB.NET
Windows Forms
Windows Services

Created the solution

### GIA**** •    ⊕ US

Mobile App for 3D model bathroom design and pricing quotation

Angular    Ionic
Node.js

Main Developer

### ISO**** •    ⊕ ES

Monitoring, control, and data acquisition software for a Gas Adsorption/Desorption analysis device

VB.NET
Windows Forms

Main Developer

### REA**** •    ⊕ ES

Monitoring, control, and data acquisition software for a Gas and Radioactivity Reactor Device

VB.NET
Windows Forms

Created the solution

### OpenTek •    ⊕ ES

Cloud Access Control solution for persons and vehicles in residential buildings

Angular    Node.js
Google Cloud    Ionic

### WEB**** •    ⊕ ES

Web Portal for water supply management of municipal water supply

Angular
Google Cloud

### Trolly    ⊕ ES

Cloud-IoT solution for airports trolleys management

Angular    Node.js
Google Cloud    Ionic

RFID

**Created the solution**

Node.js    Firestore

Created the solution

RFID

Created the solution

## MOD**** 🌐 ES

Analysis tool for analysing the energy consumption in water pumping stations using Circutor metering devices

Windows Forms

Delphi    Interbase

Main Developer

## TUR**** 🌐 ES

SCADA software for monitoring and controlling remote wind turbine devices

HTML    JavaScript

Java    MySQL

Worked for a team

## IRR**** 🌐 ES

SCADA software for monitoring and controlling remote fields irrigation systems

Windows Forms

Delphi    Interbase

Worked for a team

## SIS**** 🌐 ES

SCADA software for monitoring and controlling the city's water supply networks

Windows Forms

Delphi    Interbase

Worked for a team

🟩 Currently developing or maintaining

⬛ Finished or deferred

## Personal Skills

- Problem-solving skills
- Legacy software analysis and reverse engineering
- Third-party solutions integration
- Enthusiastic about learning new technology
- Experience in deployment and configuration of TCP/IP networks
- Knowledge of electronics concepts, analogy, and digital I/O signals
- Transform math and physics processes into software solutions
- Customer service skills

## Technical Skills

### Web Development

HTML    CSS    JavaScript    TypeScript    Angular    Astro    Node.js

### Windows Forms Applications

Visual Basic .NET    Delphi    Electron

## Databases

MySQL   Firestore   SQLite   SQL-Server   Interbase

## Cloud Platforms

Google Cloud   Microsoft Azure   Heroku   Netlify

## App Development

Ionic Framework   Firebase

## Communication Protocols

WebSocket   Pub/Sub   MQTT   RFID   TCP/IP   RS232   RS485   MODBUS

## Languages

Spanish   English   Catalan