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Currently I manage the IT department at the EIN Navarra S.L. consulting company, specialising in software development projects.

I've been developing software since 1987, mostly GIS (Geographical Information Systems) related projects for small and medium businesses.

Mathematics and Physics studies in the Universidad e Zaragoza from 1984 to 1989.

Skills

- **Software Development:** C++ Ruby SQL JavaScript Python Java git
- **Geographical Information Systems** (GRASS ArcGIS GEOS GDAL MapServer)
- **Graphic Design** (CSS SVG Photoshop Illustrator)
- **Mathematical & Statistical** software (Mathematica, R, Sage)
- **Agile Methodologies** (Scrum)
- Languages: **Spanish, English**

I've accumulated a broad experience in all aspects of software production, building solutions either on my own or leading small development teams and managing customer relationship.

I've specialized in the creation of innovative technological solutions involving **algorithm and protocol design** and the application of mathematical techniques.

I also usually teach on GIS and programming topics, and I'm frequently involved in training our users.

Professional occupations

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| since 2006 | At EIN; leading the development of solutions for corporate and public clients in the areas of information systems, control and administration, etc. |
| <i>technologies</i> | ► GIS, Web Services, OLAP, BI, Ruby on Rails, PostGIS, OpenLayers, MapServer, GeoServer, ICE. |
| 2002–2005 | At EIN; leading software development projects and giving GIS support to environmental, economic and urban planning studies; specific work with information processing, performance indicators, statistics. |
| <i>technologies</i> | ► C++/Ruby, ArcGIS, GRASS, MapInfo. |
| 2001–2002 | As a freelance consultant and developer; creating applications and systems for database management, online data selling, information systems. |
| <i>technologies</i> | ► ASP, C++, VB, HTML/JavaScript |
| 1991–2001 | At ECAS Técnicos Asociados in Zaragoza; leading software development projects and giving GIS support to GeoMarketing, environmental, economic and urban planning projects. |
| <i>technologies</i> | ► C++, MapInfo, ArcView, ArcInfo, TerraSoft, SmallWorld |

Recent projects

- 2015 **Dynamic Landscape Stability Modeling** system (ERDF-funded R&D project)
- 2012-2014 **"Managing for Development Results" (MfDR) platform** for *Gobiernos Autónomos Descentralizados* (local autonomous governments) of Ecuador, funded by the Inter-American Development Bank. Applications have been deployed in the "El Oro" province and the Municipality of Cuenca. Developed by a multidisciplinary team; based on Ruby on Rails, PostGIS, and integrated with the respective institutional financial systems.
- 2012 **SmartLuix.** System for the administration and control of smart lighting solutions for the "Iluminación Inteligente Luix" company (a **SmartLand Technologies** participant). Built by a 4-people team applying agile methodologies; uses Ruby on Rails, PostGIS/OpenLayers; it's integrated into control and monitoring systems through the use of ZeroC ICE.
- 2012 Map-Matching platform for **Car Angel** company. Vehicle georeferencing adjusted to road networks and driving-style parameters computation. Developed with Ruby on Rails, PostGIS, OpenStreetMaps.
- 2010–2012 **SIGRAC** Sistema de Gestión y Control de Redes de Abastecimiento de Agua. R&D-funded project for the control and administration of water supply networks. Based on Ruby on Rails, PostGIS y EPANET and integrated into CAD systems. Has been applied in municipalities of the Guadalajara province in Spain.
- 2009–2011 **Obsium:** R&D-funded project for creating IT platforms for Observatories. Applied in Spanish local autonomous governments: "Observatorio de la Seguridad Pública de Navarra" (Navarra) and "Observatorio de la Sostenibilidad REZ 21" (Zaragoza)
- 2006–2010 **Planes de Ordenación Territorial de Navarra.** Technical GIS support for the development of the Spatial Plans of the Navarra autonomous region.

Other selected projects

- 1998–2000 **MapExplorer.** Map and data viewer developed in C++; used for several CD-ROM products: SITEAR Sistema de Información Territorial y Estadística de Aragón (Diputación General de Aragón), Guía Urbana y Turística de Zaragoza 2000 y 2005 (Ayuntamiento de Zaragoza).
- 1990–1993 **Sistema Territorial de Aragón,** a project funded by Centro para el Desarrollo Tecnológico Industrial (CDTI) and Dirección General de Electrónica y Nuevas Tecnologías del Ministerio de Industria
- 1987 Digital Terrain Model and program for computing hill farming parameters; developed in C and PL/I in collaboration with the Instituto Geográfico Nacional (Spanish National Geographic Institute), for the Diputación General de Aragón (Aragon's autonomous government).