

# SEBASTIÁN SERRANO GARCIA

Address:  
Gómez de Avellaneda 41-2ºA  
50018 Zaragoza (Spain)  
Phone: +34 876 044 044  
Mobile: +34 665 184 004  
Email: [sebas\\_serrano@hotmail.com](mailto:sebas_serrano@hotmail.com)

---

## WORK EXPERIENCE (Follow QR code to see more details)



- 2005-present **Automation department chief engineer. ROVIAR.**  
Exporting company dedicated to the design and manufacture of turnkey plants and machinery for manufacturers of construction materials.
  - Design, construction supervision, outsourcing and cost accounting of electrical and electronic plants of automatism projects.
  - PLCs, computers and other devices programming.
  - Preparation of quotations for automation projects.
  - Onsite adjusting of the most complex and innovative projects.
  - After-sales service to customers.
  - Company intranet administration and tools for internal use programming.
- 1992-2005 **Manager and development engineer. HEXAINSEL.**  
Company dedicated to the design and manufacture of industrial automation.
  - Manager and owner (33%).
  - Design, construction supervision and cost accounting of electrical and electronic plants of automatism projects.
  - PLCs, computers and other devices programming.
  - Purchase management.
  - Preparation of quotations for automation projects.
  - After-sales service to customers.
  - Company intranet administration and tools for internal use programming.
- 1989-1992 **Industrial engineer. HERMANOS ROYO VILLUENDAS.**  
Company dedicated to the manufacture of machinery for artificial stone stairs.
  - Creation, management and development of the company's automation department.
  - Design of electrical and electronic plants of automatism projects.
  - PLCs, computers and other devices programming.
- 1988-1989 **Research fellow. ENAGAS (National Gas Company).**  
Hired through the Fluid Dynamics department of the Industrial Engineers School of University of Zaragoza.
  - Development of a numerical simulation program in the field of fluid dynamics (CFD) to simulate combustion in boilers using fuel oil and natural gas as fuels. To be used as a tool to help the company's commercial department to convert boilers to natural gas (Final degree work).

- e1987-1988 **Customer assistant. RANDOM Software.**
    - Installation, maintenance and training of CAD applications.
  - 1986-1988 **Scholarship assistant. Fluid Dynamics (CFD) department from Superior School of Industrial Engineers of the University of Zaragoza.**
    - Help with realization of practices of the subject for students.
  - 1984-1989 **Freelance programmer.**
    - Custom application programmer for various companies.
- 

## EDUCATION

**Bachelor in Industrial Engineering**, specializing in Electricity from Escuela Técnica Superior de Ingenieros Industriales (Industrial Engineers School) of the University of Zaragoza (1983-1989).

**Final Degree Work**, Transformation of industrial boilers from fuel oil to the consumption of natural gas. Development of computational methods to predict their behavior.

## IDIOMAS

- **Inglés.** Intermediate (B2). B1 level certified by Escuela Oficial de Idiomas (Official Language School) of Zaragoza
  - **Francés.** Conversational (B1).
- 

## SKILLS

- **Operating Systems**
  - Windows. Mainly used in my professional career. Network administrator of medium size networks with Microsoft SQL Server as database manager.
  - Linux. I administer a system at a particular level with Apache Tomcat and MySQL as web applications and database managers.
- **Programming**
  - Languages: C, C++, C#, Java, Basic, Pascal, Python.
  - IDEs: Visual Studio, Apache Netbeans.
  - Web design: HTML-5, CSS, PHP, Java script.
  - Web applications: HTTP/IP (server-client), Apache Wicket library.
- **Databases**
  - Managers: Microsoft SQL Server, MySQL Server, Microsoft Access.
  - Data access (DAO): Hibernate, JDBC, ODBC.
  - Language: SQL
- **Platforms**
  - Desktop apps.
  - Mobile apps (Android).
  - Web apps.

- **Office automation and edition software**
    - Microsoft Office: advanced level user and programming level in VBA and .NET.
    - Apache Open Office: advanced level user and programming level (OpenOffice API).
    - Autodesk AutoCAD (2D, 3D, Mechanical, Electrical, Inventor): nivel de usuario y programación (VBA y .NET).
    - Adobe Photoshop: user level.
    - Corel Draw: user level.
    - ERP: instalation and customization (CaBaL), development.
  - **PLCs Programming**
    - Languages: standard IEC 61131-3 language definition: ladder diagram de contactos (LD), function block diagram (FB), structured text (ST), instruction list (IL) and sequential function blocks (SFC) also know as CHART.
    - Devices: Schneider, Siemens, Omron.
    - Communications protocols: Modbus, CanOpen, Unitelway. No sólo a nivel de usuario (configuración e instalación) not only at a user level but as programmer, being able to develop communication libraries for computers using these protocols.
  - **Others**
    - OpenFOAM: numeric simulation in fluid dynamics field (CFD).
- 

## PERFIL DE APTITUDES

- **Aptitudes personales:** Responsable. Alto ritmo de aprendizaje, resolutivo en situaciones de alta presión y exigencias elevadas, amante de los retos, dinámico y optimista. Disciplinado y autoexigente.
- **Aptitudes sociales:** Sociable y extrovertido. Habitudo al trato con clientes, trabajo en equipo y con dotes de liderazgo.
- **Intereses:** Nuevas tecnologías, inteligencia artificial y simulación numérica.