



# ALEJANDRO GALLARDO MARTIN

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**Date of birth:** 03/05/1980 | **Nationality:** Spanish | **Gender:** Male | **Phone number:** (+34) 653668704 (Mobile) |

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## ● WORK EXPERIENCE

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01/01/2024 Madrid, Spain

### **MONITORING AND IN SITU OBSERVATION SERVICES MANAGER NOW SYSTEMS**

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- Design and deployment of operational services for data harvesting from oceanographic information providers.
- Definition and implementation of solutions for data dissemination through end-user applications and real-time warning systems.
- Operational definition and implementation of data quality assessment framework.
- Supporting modelling activities (observations assimilated or used for model validation).

01/12/2017 – 31/12/2023 Madrid, Spain

### **DATA ANALYST / SOFTWARE DEVELOPER NOLOGIN CONSULTING S.L**

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- Design and deployment of operational procedures for data harvesting from oceanographic information providers.
- Software development for data handling, data files generation and interactive visualization .
- Operational definition and implementation of quality assessment framework.
- Support for administration operations over relational and non-relational databases, developing interfaces and gateways to access data through REST services.
- System definition and development of automation routines in Linux operating system environment.
- Definition and implementation of a web-based solution for running operational procedures and monitoring outcomes.
- Design, deployment and maintenance of a customized real-time alert system.
- Defining and upgrading of CD/CI scheme to automatic deployment of operational procedures.

01/09/2016 – 01/04/2024 MADRID, Spain

### **COFOUNDER TRANS4TRONICA SLL - ELECTRONICS AND SOFTWARE SOLUTIONS**

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Design firmware for microcontrollers in C and to run over MCU operating system.  
Design and develop back-end (JAVA based) / front-end web applications for storing and visualization sensor data with SPRING, HIBERNATE, MAVEN, AJAX, JSON, JQUERY CHARTING LIBRARIES.  
Design PYTHON functions for managing concurrency access to data over Raspberry platform.  
Design C libraries to configure and control sensors in a wide range of domestic and industrial applications: temperature, humidity, motion sensor, light sensor, accelerometer.

15/02/2011 – 30/11/2017 MADRID

### **CUSTOMER SERVICE TECHNICIAN EXTEL CRM**

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Technical support for troubleshooting in customer service department.

01/03/2016 – 30/06/2016 MADRID, Spain

### **FIRMWARE AND SOFTWARE DEVELOPER DELCOM TELECOMUNICACIONES Y SISTEMAS**

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Design C libraries for control and communication of microcontroller and RF transceiver.  
Design Python libraries for RFID applications in remote data storage and retrieval system.  
Design of native mobile app for data storage and visualization with PHP and ANDROID STUDIO.

01/09/2010 – 01/02/2011 MADRID

### **TECHNICAL SALESPERSON SAFER INSTRUMENTACION SL**

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Design and support of OEM intrumental systems for monitoring industrial processes

01/04/2010 – 30/06/2010 MADRID, Spain  
**ENERGY EFFICIENCY TECHNICIAN SINCEO2**

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Modeling and visualization of thermographic data and electricity supply for the reporting of energy performance of buildings

01/10/2008 – 27/03/2010 MADRID, Spain  
**MANAGEMENT CONTROLLER GRUPO EULEN**

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Development of VisualBasic macros for data processing and performance indicators

01/07/2007 – 31/05/2008 MADRID, Spain  
**MANAGEMENT CONTROLLER IRIARTE TRADING FASHION SL**

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Design of information system for accounting information management

01/06/2007 – 31/07/2007 MADRID, Spain  
**RESEARCH STUDENT SCHOLARSHIP ISOCO**

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Development of conceptual ontology in OWL format with Protege for enrichment of semantic search engine for administrative information.

01/01/2007 – 31/05/2007 MADRID, Spain  
**RESEARCH STUDENT SCHOLARSHIP UNIVERSIDAD CARLOS III - COMPUTER AND COMMUNICATIONS SERVICE**

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Content migrator and architecture creator with web content manager and document manager

01/04/2006 – 30/11/2006 MADRID, Spain  
**TECHNICAL SUPPORT RESEARCH B2 UNIVERSIDAD CARLOS III - GRUPO SCIMAGO**

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Validation and codification of raw data for indicators development and visualization of huge information volumes in the project "La investigación en colaboración de las Universidades españolas (2000-2004)" (PostgreSQL, PHP, Javascript plotting)

## ● **EDUCATION AND TRAINING**

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01/10/2016 – 06/06/2017 MADRID, Spain  
**MASTER CERTIFICATE IN JAVA SE CICE - ORACLE**

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**Programmer Certified Profesional (1Z0-851). Score 98%**  
Web Frameworks: **Spring, Struts, JSF, Maven, JSTL, Ajax, JQuery**  
Persistence Frameworks: **Java Persistence API, Hibernate**  
Database Management Systems: **MySQL, PostgreSQL, MongoDB**

01/09/2014 – 01/06/2016 MADRID, Spain  
**HIGHER TECHNICIAN IN ELECTRONIC DESIGN JUAN DE LA CIERVA HIGH SCHOOL**

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Design of Analogical Electronic Circuits  
Design of Digital Electronic Circuits  
Programming of Microprogrammable devices  
Design of Radio-communication systems  
Maintenance of Telecommunication infrastructures  
Maintenance of Industrial Electronics Equipment  
Assembly Processes and Techniques and Maintenance of Electronic Equipment

**Level in EQF** EQF level 5

01/09/2009 – 01/06/2011 MADRID, Spain  
**HIGHER TECHNICIAN IN ELECTROTECHNICAL AND AUTOMATED SYSTEMS CFP JOSE RAMON OTERO**

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Processes in Renewables Energies Infrastructure Installations  
Electrical Installations Techniques and Processes  
Electrical Systems and Circuits

**Level in EQF** EQF level 5

01/09/2002 – 01/06/2007 MADRID, Spain

**BSC IN INFORMATION SCIENCE** UNIVERSIDAD CARLOS III

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Analysis and desing of database systems (PostgreSQL)

Design of patterns for structuring, codificacion and exchange scientific information (XML, JSON, NETCDF, OWL)

Knowledge organization systems

Information search and retrieval in web semantic systems (PROTEGE)

Web content management

Automation systems in information services

Electronic records management for the enterprise

Accesibility and universal design of information

**Level in EQF** EQF level 7

01/09/1999 – 01/06/2002 Madrid, Spain

**BSC IN PHYSICS** Universidad Nacional de Educacion a Distancia

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Uncompleted studies

Some subject passed : mathematical analysis (differential and integral calculus), linear algebra, physics fundamentals, electromagnetism, computational physics with FORTRAN

**Level in EQF** EQF level 7

## ● **LANGUAGE SKILLS**

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Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● **DIGITAL SKILLS**

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Programming (C, Java, Python, OCaml, OpenGL) | CI/CD using Jenkins | Docker Container | GITLAB CI | Designing electronic circuits | Electronic simulations

## ● **HONOURS AND AWARDS**

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### Honours and awards

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2006 - Awardee CSIC scholarship of research introduction for social science students

2005 - Educational excellence certification of Comunidad Autonoma Madrid academic achieiment prices

## ● **ORGANISATIONAL SKILLS**

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### Organisational skills

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Advanced skills in teamwork, resource management and troubleshooting

## ● **COMMUNICATION AND INTERPERSONAL SKILLS**

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### Communication and interpersonal skills

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Good communications skills gained through my experience as a customer service technician

## ● **JOB-RELATED SKILLS**

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### **Job-related skills**

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Programming skills over Object Oriented paradigm (JAVA, PYTHON) and structure and Imperative paradigm (C, FORTRAN).

Analytical capacities for identifying patterns in raw data and for designing data models that represent semantic features of data collections in standard exchange formats (XML, JSON, NetCDF, OWL).