

CARLOS MECHA

mecha.carlos@gmail.com

Madrid, Spain

Objective

Working in **multicultural environments**, involving numerous resources within projects, tested my **perseverance** and **leadership** to **react** to complicated situations, delivering **quality**, **confidentiality** and returning the trust given to me.

Technical Skills

- Programming: Java (J2EE), C/C++, C#, Ruby.
- Experience with databases: Oracle 9g, 10g, 11g, PostgreSQL, MySQL, SQLite, SQLServer.
- Web programming: PHP, JSP, Velocity, JavaScript (jQuery).
- Distributed platforms: Java RMI, CORBA, RCP.
- Frameworks: .NET, Struts, Jersey JAX-RS.
- Scripting: Bash, Perl.
- Programming for mobile devices: Android.
- Others: Lisp, Prolog, CISCO hardware, Maven2, System admin in Linux environments.

Experience

Apr 2012 Sep 2012, Lawrence Berkeley National Laboratory, CA.

Software Developer 2

- Maintaining and developing a resources management site connected with tools like Atlassian Confluence, Google Groups, Jasper Reports and LDAP auth. Implemented with J2EE, Jersey JAX-RS and JavaScript (jQuery)
- Designing and developing a performance management system for employees embedded into Atlassian Confluence. Using J2EE, JPA, Velocity and JavaScript.

Sep 2010 Oct 2011, Carlos III University of Madrid, Spain.

Master dissertation, designer and developer

- Remote Laboratory Framework (RLF): Development of a distributed system for teachers and students of mechanical and industrial engineering. Provides access to laboratory tools (motors, computers, cameras, thermometers, databases, electronic instruments, etc). Implemented using JavaEE, C, BASH, C# and Visual C++ (with .NET), Android, HTML & CSS, JQuery, JSON and WebServices.

(<https://github.com/CarlosMecha/remote-laboratory-framework>)

Mark: A+ with honors

Jan 2010 Jun 2010, National Institute of Applied Sciences, Rouen, France.

Internship, designer and developer

- ISO9001 Certified Project: Designed and developed a new CISMED database with Oracle 11g (<http://www.cismef.org>). Made a RDF framework for the medical database, worked as design manager. We obtained a structure for quick and efficient queries applied to different terminologies (drugs, chemicals, diseases, etc.)
- Taught Oracle 11g and design database classes to workgroup students.
- INSA Project: Treatment of brain waves for mouse movement on a Digitable (<http://digitable.imag.fr/>), using data mining software (OpenViBE). By treating an EEG, data was achieved to detect when the subject thought about moving the pointer. The project is still in development.
- INSA Project: Developed a PID system in a PIC16F887 for a little moving robot (RoboPICA) in MikroC. It was created along with mechanical engineering students applying mechatronic concepts.

Jan 2009 Aug 2009, Carlos III University of Madrid, Spain.

Internship, network administrator

- Technical support in LAN and Wi-Fi networks. Worked in management group supporting the university network (approx. 5000 nodes).
- Planned, created, configured and maintained local networks in Linux and Windows systems.
- Configured and maintained university VPNs.

Education

- 2005 - 2011: **Masters in Computer Science & Engineering** (Carlos III University of Madrid, Spain). Major in Distributed Systems. Outstanding results in databases and artificial intelligence.
- 2009 - 2010: **Master in Information Systems Architecture** (National Institute of Applied Sciences, Rouen, France). Exchange student.

Others

- Language ability: English, French, Spanish and learning Japanese.
- Visa: Pending for "Young Professionals" program.