Curriculum Vitae

PERSONAL INFORMATION

Toni Sagristà Sellés

⚲ UB, Department of Astronomy and Meteorology, 7 floor, office V714I, C/ Martí i Franquès 1, 08028 Barcelona (Spain)

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Sex Male | Date of birth 05 August 1983 | Nationality Spanish

PREFERRED JOB

Astrophysicist / Software Engineer

WORK EXPERIENCE

01 October 2005 – 08 January 2007

Software designer, Internship

Justinmind SL
Marie Curie 8-14, 08042 Barcelona (Spain)

- Design and development of a document management system using Struts, Hibernate, Quartz, Lucene, jBPM and more J2EE technologies.
- Design and development of the user management module in use in most Justinmind products.
- Design and development of a web application generation framework to work with the Justinmind Prototyper.
- R+D department.

Business or sector Professional, scientific and technical activities

01 September 2007 – 30 January 2010

Software designer and analyst

Justinmind SL
Marie Curie 8-14, 08042 Barcelona (Spain)

- Lead manager and analyst of HTML and web application generation API.
- Lead designer of Justinmind's generation API.
- J2EE, Struts, Struts 2, Spring, JSF, WebWorks, jQuery, Hibernate, GEF, GMF, Eclipse, Tomcat and several other J2EE technologies and frameworks.
- R+D department.

Business or sector Professional, scientific and technical activities

28 February 2010 – 11 December 2011

Scientific software engineer / Astrophysics field

Universitat de Barcelona / ICC
Martí i Franquès 1, 08028 Barcelona (Spain)

- Design and development of the AMIGA cosmological semi-analytic model front end for external use under the supervision of Dr. E. Salvador.
- Design of the scientific data management module which deals with huge amounts of data.

Business or sector Professional, scientific and technical activities

12/12/2011	**Software Engineer and Researcher**

IEEC/ICCUB

C/ Capitá, 2-4, desp 201, 08034 Barcelona (Spain)

Design, profiling and support to first-stage data processing in ESA's Gaia astrometry mission.

- R+D in ESA's Gaia astrometry mission.
- Analysis, performance assessment, design and impelentation of several pieces of software related to the simulator ofthe telemetry stream of Gaia (GASS).
- Performance analysis of CU2 products such as GASS and GaiaSimu. Parallelization of GASS simulator.
- Development of TMV, the telemetry validator for GASS.
- Design and development of auxiliary software such as the GbinConverter, the IntervalUtils, the HTMGenerator, etc.

Business or sector Astrophysics Research

EDUCATION AND TRAINING

12 September 2001 – 01 June 2007	**BSc in Informatics Engineering**	ISCED 6

Universitat Politècnica de Catalunya / FIB,

The aim of the Degree in Informatics Engineering is to give students a general grounding in informatics, examine all or most subjects inherent to the field in depth and train them to attain pass one of the areas of specialisation offered by the School.

- High-performance architectures and computing
- Software engineering and information systems
- Fundamentals of computing
- Data management and operations
- System interfaces and integration
- Advanced programming techniques
- Telematic networks and operating systems

01 February 2010 – 15 September 2011	**M.Sc. in Astrophysics, Particle Physics and Cosmology**	ISCED 6

Universitat de Barcelona,

The Masters degree in Astrophysics, Particle Physics and Cosmology, pathway of Astrophysics and Space Sciences. It provides advanced academic training within the fields of astrophysics, space sciences, atomic, nuclear and particle physics, gravitation and cosmology

PERSONAL SKILLS

Mother tongue(s) Catalan, Spanish

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A2	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Team-working

- Ability to work in a multicultural environment, gained through my two Erasmus years abroad (in Reading and Aberdeen, UK)
- Good communication and presentation skills in both Spanish and English.

Organisational / managerial skills

- Experience in project management, gained during my work in Justinmind.

Job-related skills

- Very good knowledge of software analysis, design and requirement gathering.
- Good scientific research skills gained during my stay at Cosmology Group in UB.

Computer skills

- Good programming skills in several languages such as Java, C and C++, Fortran, etc.
- Good knowledge of several J2EE frameworks such as Struts, Spring, GWT, Quartz, Lucene, bpm, etc.
- Proficient in web design technologies: HTML5, CSS3, Javascript, XML, jQuery, AJAX, PHP, vbscript.
- Android SDK.
- LaTeX.
- SVN/GIT
- Natural Language Processing.

Driving licence   A1, A, B, B1, BE

ADDITIONAL INFORMATION

Publication: Development of the AMIGA front end for external use, Masters UB, 2011