

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Alves Figueiras, Paulo**
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E-mail paulofigueiras@gmail.com
Nationality Portuguese
Date of birth 30/09/1982
Gender Male
LinkedIn Profile <http://www.linkedin.com/profile/view?id=117383823>

Desired employment / Occupational field

Computer Science Engineer

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>January 2013 – present day</p> <p>Researcher / Software developer</p> <p>Development of Smart Mobility platform under the scope of EC Research Project MobiS. Main responsibilities:</p> <ul style="list-style-type: none"> - Requirements Analysis and used technologies decision - Front-End design and development, using jQuery Javascript Library, HTML5+CSS3 for the MobiS Route Planner application - Integration of several social networks with the Mobis Smart Mobility Platform (Google API's, Facebook Graph API, Foursquare API, Triplt API, etc) - Integration of third-party and consortium partners' platforms with the MobiS Smart Mobility Platform (MISTIC Platform, traffic and public transportation information sources and API's, car-sharing API's, etc.) - Integration of Cycorp's Cyc with the MobiS Platform and development and extension of the Cyc Transportation Knowledge Model - Development of road network graphs and routing algorithms for the MobiS Platform
<p>Name and address of employer</p> <p>Type of business or sector</p>	<p>UNINOVA-GRIS (Group of Research on Integrated Systems), 2829-516, Monte da Caparica (Portugal)</p> <p>IT Research</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>November 2013 – Present Day</p> <p>Researcher</p> <p>ProASense: The Proactive Sensing Enterprise, under the scope of EC Research Project PROASENSE. Main responsibilities:</p> <ul style="list-style-type: none"> - Research and study of business improvement strategies in a proactive environment - Assessment and update of pilots' Key Performance Indicators in order to identify business optimization through proactive behaviour - Research on proactive decision-making and automatic recommendation systems

Name and address of employer	UNINOVA-GRIS (Group of Research on Integrated Systems), 2829-516, Monte da Caparica (Portugal)
Type of business or sector	IT Research
Dates	June 2012 – December 2012
Occupation or position held	Researcher
Main activities and responsibilities	Roadmaps for Internet of Things deployments until 2020, under the scope of EC Research Project PROBE-IT. Main responsibilities: <ul style="list-style-type: none"> - Research and study of disruptive technologies and paradigms for the Internet of Things - Analysis on different types of technology that will enable the evolution of the Internet of Things, such as, Sensing Technologies, Communication and Networking protocols and technologies, Energy Harvesting and Storage, Wireless Sensor Networks, etc. - Research on the possible implications of the Internet of Things in the near future in areas like Pervasiveness, Security, Privacy, Trust, Governance, etc. - Study on possible business models for the Internet of Things in the near future.
Name and address of employer	UNINOVA-GRIS (Group of Research on Integrated Systems), 2829-516, Monte da Caparica (Portugal)
Type of business or sector	IT Research
Dates	November 2012 – present day
Occupation or position held	Columnist for Technology, Gadgets and Videogames
Main activities and responsibilities	Author of opinion articles on the Technology, Gadgets and Videogames column for DIVO Magazine (Angola), PARQ Magazine and Avalanche Magazine (Portugal)
Name and address of employer	DIVO Magazine, Angola
Type of business or sector	Media
Dates	2009 – 2012
Occupation or position held	Software Development
Main activities and responsibilities	Knowledge Management module development of CoSpaces European Integrated Project (CoSpaces Knowledge Sources - CoSKS), as part of the Mastership Degree project. Main responsibilities: <ul style="list-style-type: none"> - Design and development of an OWL-DL ontology for the Building & Construction Domain - Relational database design and development using MySQL - Requirements Analysis and used technologies decision - Conceptual and architectural design of a n-tier system, based on MVC, using UML - Integration of CIKP Semantic Framework with CoSKS system using Jena API and OWL API
Name and address of employer	UNINOVA-GRIS (Group of Research on Integrated Systems), 2829-516, Monte da Caparica (Portugal)
Type of business or sector	Academic / IT Research

Education and training

Dates	July 2013
Title of qualification awarded	Google Machine Learning School: Learning with Big Data
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> - INTRODUCTION TO PYTHON - INTRODUCTION TO MACHINE LEARNING - MODELING MORPHOLOGICALLY RICH LANGUAGES - SEQUENCE MODELS - LEARNING STRUCTURED PREDICTORS - RELATION EXTRACTION WITH MATRIX FACTORIZATION - SYNTAX AND PARSING - UNDERSTANDING ALL THE WORLD'S LANGUAGES - LEARNING WITH BIG DATA - LANGUAGE TRANSLATION AND CODE-BREAKING - MULTI-TASK LEARNING FROM LARGE-SCALE HIGH-DIMENSIONAL DATA
Name and type of organisation providing education and training	Google Inc., Instituto Superior Técnico (University), INESC-ID (Research Center)

Dates	March 2013 – June 2013
Title of qualification awarded	Micro MBA in Business Management
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> - Sales Management and Optimization - Customer and Employee Relations - Human Resources Management - Marketing and Publicity - Technology Management - Commercial Management - Behavioral Management - Enterprise Management
Name and type of organisation providing education and training	Capacidade Lógica, E-Learning School
Dates	February 2013
Title of qualification awarded	Cyc Training
Principal subjects/occupational skills covered	<p>Training period of three weeks under the scope of the European Commission FP7 project named MobiS. Main capabilities obtained:</p> <ul style="list-style-type: none"> - Cyc usage and expansion experience; - CycL and KE-Text usage experience; - Large Knowledge Collider (LarKC) development experience; - Requirements analysis and first stage of development and planning for MobiS project;
Name and type of organisation providing education and training	Jozef Stefan Institute, Ljubljana, Slovenia
Dates	2006 – 2012
Title of qualification awarded	Electrotechnic and Computers Engineering Integrated Mastership Degree
Principal subjects/occupational skills covered	<p>Main Areas: Virtual Enterprises, Web & Mobile Development, Collaborative Environments, Semantic Web, Knowledge Management, Robotics & Automation, Data Modelling and Management, Artificial Intelligence, Programming Languages, Systems Integration</p> <p>Main Courses Taken:</p> <ul style="list-style-type: none"> - Algorithms and Data Structures - Architectures for Systems Integration - Virtual Enterprises - Systems Integration - Data Modelling in Engineering - Data Acquisition Systems - Medical Information Systems - Multimedia Information Systems - Real-Time Systems - Robotics - Robotic Systems and CIM - Sensorial Systems - Computer Networks - Microprocessors - Microprocessor Programming
Name and type of organisation providing education and training	Faculty of Science and Technology – New University of Lisbon Faculdade de Ciências e Tecnologia – Universidade Nova de Lisboa
Level in national or international classification	14

Personal skills and competences

Mother tongue(s) **Portuguese**

Other language(s)

Self-assessment

Understanding	Speaking	Writing
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European level (*)		Listening		Reading		Spoken interaction		Spoken production		
English	C2	Proficient User	C2	Proficient User	C1	Proficient User	C1	Proficient User	C2	Proficient User
French	B2	Independent User	C1	Proficient User	A2	Basic User	A2	Basic User	B1	Independent User
Spanish	B2	Independent User	B2	Independent User	B1	Independent User	B1	Independent User	A2	Basic User

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Sociable; Hard Working; Perseverant; Responsible; Team Spirited; Easily Adapted; Good Communicator

Organisational skills and competences I'm a Software/Web engineer who enjoys the challenges of working with cutting edge technologies, especially Web 2.0-related, such as HTML5+CSS3 or Semantic ontologies. I also have a great interest in mobile development, with freelancing and self-taught experience in Android and iOS platforms. My expertise includes user interface design for desktop, web and mobile applications, collaborative environments, knowledge management, web services, SQL databases, and Virtual Enterprises.

I have good organizational skills and can easily "switch gears" between platforms, programming languages, and development environments. Furthermore, I easily adapt to platforms and tools, and learn to use new technologies in very short periods of time. I'm an all-around generalist who can bring immediate value to any organization while quickly learning the particular technology and application domain at hand.

Although I only have academic and freelancing work experiences, I feel comfortable in all phases of software engineering life cycles, including requirement analysis, technical planning & design, development, database design, executing the projects and implementation.

Technical skills and competences Great interest in maintaining a high level of knowledge in everything related with web, mobile and ubiquitous technologies. Capable of rapid visual and interaction prototyping, requirements analysis, successful implementation and/or integration of applications, visual and non-visual component design, and services across logic, presentation, and data services tiers. Link the gap between technology and design by providing technical guidance during the process of design. Applying the problem solving abilities and innovative thinking to create opportunities for innovation. Other responsibilities are working together with designers and other developers within the academic domain to express requirements such as interactive prototypes using assets, tools and methodologies to assist the interactive workflow between technologists and designers during implementation cycles.

Computer skills and competences Comfortable with technologies like Web Services, AJAX, XML, JSON and other WEB 2.0 related technologies. Good experience and theoretical knowledge on the Semantic Web, particularly, ontology design and semantic portals development.

Programming Languages:

- Java, JavaEE, J2ME, .NET, C#, C++, C, Assembly, Prolog, LabView, MatLab

Web Development:

- Javascript, AJAX, PHP, HTML5, CSS3, Javascript libraries/toolkits (jQuery, Dojo, Prototype, Sencha JS), JSON, XML & XML Schema, JSF, JSP, Web Services, Servlets, Portlets, Google App Engine and Google Web Toolkit

Development Platforms and Business Tools:

- Netbeans, Eclipse, MS Visual Studio, OutSystems, MS Project

Other Technologies:

- OWL & RDF, Delphi Pascal, MS Project, VHDL

Databases:

- Oracle, MySQL, MS Access, MS SQL Server

Interest Areas:

- Knowledge Management, Collaborative Environments, Project Management, Semantic Web, Software Development, Web/Mobile Development, Web Design

Other skills and competences

Strong freelancer experience in designing and developing software applications.
Self-taught and interested on several state of the art technologies and platforms.
Detailed design-level knowledge of at least three of the technologies listed above.
Professional-level implementation skills.
Strong leadership skills.
Strong written/oral communication skills.
Ability to lead tasks throughout the project lifecycle.

Driving licence

B

Publications and Awards

1st place on the INOV.POINT and Tagus Valley Entrepreneurship and Enterprise Projects Contest (Abrantes, Portugal), with project Re.INOVa – Environmental Knowledge

Costa, Ruben, Figueiras, Paulo, Maló, Pedro, Lima, Celson, 2012. "Representação Semântica de Conhecimento no Setor da Construção". SIGES 2012 - Simpósio de Informática e Geotecnologia de Santarém, Vol. 5, 97-108, Santarém, Brasil. **Awarded with the Best Paper Award.**

Costa, Ruben, Figueiras, Paulo, Paiva, Luis, Lima, Celson, Jardim-Goncalves, Ricardo, 2012. "Capturing Knowledge Representations Using Semantic Relationships - An Ontology-based Approach". SEMAPRO 2012 - Proceedings of the 6th International Conference on Advances in Semantic Processing, 276-289, Valencia, Spain

Author of Mastership thesis "A Framework for Supporting Knowledge Representation – An Ontological Based Approach" presented at Faculdade de Ciências e Tecnologia of Universidade Nova de Lisboa and granted with a final classification of 19.

Figueiras, Paulo, Costa, Ruben, Paiva, Luis, Lima, Celson, Jardim-Goncalves, Ricardo, 2012. "Information Retrieval in Collaborative Engineering Projects - A Vector Space Model Approach". KEOD 2012 - Proceedings of the International Conference on Knowledge Engineering and Ontology Development, 233-238, Barcelona, Spain. <http://dx.doi.org/10.5220/0004139302330238>

Lima, Celson, Figueiras, Paulo, Costa, Ruben, 2010. "A Knowledge Engineering Approach Supporting Collaborative Working Environments based on Semantic Services". KEOD 2010 - Proceedings of the International Conference on Knowledge Engineering and Ontology Development, 123-132, Valencia, Spain. <http://dx.doi.org/10.5220/0003102801230132>

Co-author of article "Knowledge Management Capabilities Supporting Collaborative Working Environments in a Project Oriented Context", accepted in conference ECIC 2010 - European Conference on Intellectual Capital

Costa, Ruben, Lima, Celson, Antunes, João, Figueiras, Paulo, Parada, Vitor, 2010. "Knowledge Management Capabilities Supporting Collaborative Working Environments in a Project Oriented Context". ECIC 2010 - Proceedings of the 2nd European Conference on Intellectual Capital, 208-216, Lisboa, Portugal.