

Vítor Rodrigues
Feldmann Str. 10
64347, Griesheim
Germany

April 14, 2008

MAP-i Scientific Committee
a/c Alexandra Ferreira
Departamento de Ciência de Computadores
Faculdade de Ciências da Universidade do Porto
Rua do Campo Alegre, 1021
4169-007 Porto, Portugal

MAP-i Application Letter — 2008/09 Course Edition

In this application letter I wish to present you the stronger arguments that motivate me to be a candidate for MAP-i doctoral program and to apply for a grant.

For the last ten years I have been trying to affirm myself as a researcher and the MAP-i doctoral program is an excellent opportunity for me to give continuity to that work. I began doing research at the R&D institution INESC Porto where I add the privilege to contribute for several European projects. As a trainee at ESOC (European Space Agency Centre) I was able to make contact with a different reality and to apply my knowledge, not only in favor of the Agency but also for my own good since I materialized my research work in my Master thesis. These positive results gave me the opportunity to be presently working as software engineer at ESOC.

Although my research and development area has always been related with software subjects, I did my high-school graduation in Electrical and Computer Engineering. I learned to see software not as an end in itself but always as something with the function to give support for more theoretical areas such as Electronics, for example. Therefore, I got used to think closer to the functioning of theoretical systems than to the technical aspects of the software tools that model those systems. But this did not preclude my continuous specialization in the manipulation of technologies. What I consider important is to capture the essential characteristics of each technology so that they can be applied with the maximum efficiency and lesser effort.

Despite the fact that I have already three research papers published, two of them as the first author, I am conscious of the need of a PhD to be able to dedicate myself full time to research. On the other hand, if it is true that applied research in the universe of Informatics is fundamentally technologic, I consider to be essential the achievement of a certain level of maturity in dealing with technologies, and not with being limited by them, in the process of creating new ideas. In this sense, I see in the MAP-i doctoral program a great opportunity to enrich my knowledge, mainly in the areas closer to Computer Science, and to put in practice my technical skills.

The Master in Informatics Engineering that I have done in the same university I did the five years degree allowed me to continue to think of learning as a primordial factor for the creation of ideas and their concretization. Under the supervision of Professor João Correia Lopes I was able to learn the paradigm of functional programming languages and was also with his orientation that I developed my Master thesis. At the same time, I worked with Professor João Correia Lopes at INESC Porto. This period of collaboration would end without the publication of a research paper in the conference CAISE'08, together with Professor Ana Moreira from the New University of Lisbon, entitled "An Hybrid Design Solution for Spacecraft Simulators".

My interest in Computer Science has been gradually growing and I face the possibility of doing part of the MAP-i at the Carnegie Mellon University with great expectations. I count with the support of Professor José Nuno Oliveira from the University of Minho and Professor Mário Florido from the Faculty of Sciences of the University of Oporto that already know my work and validated my ideas for my PhD thesis. Both accepted to be my supervisors in this application for the MAP-i doctoral program. In fact, my plans for a PhD are a direct consequence of my Master Thesis and I am working on it on a regular basis. Generically, the subject of research is a *simulator of formal specifications*. It involves topics of logic and functional programming, abstract machines and a wide range of technologies.

The five years of experience I had at INESC Porto and the contacts that I have tried to keep with the Faculty of Engineering of Oporto has yet a strong influence in the way I face interpersonal relations. I had a relevant role in the ORBIT project created by London BBC and INESC Porto where I began to work with the borderline technology CORBA, and I was a pioneer in the Distributed Computing area of INESC Porto where I gave continuity to my graduation final project. Later, I had the pleasure to work with French Thompson and HP in the ASSET European project which purpose was to find the best way to use the MXF technology in a distributed environment. I had the feeling that my advanced technological knowledge was something that pleased our partners and that allowed me to think of professional relations as something between equals,

even if I was too young at the time. Currently at ESOC, I have the privilege to work closely with VEGA, ESOC's prime contractor. At this level, the activity of software engineering brings great advantages in getting the picture of what the most advanced, technologically and conceptually, is being done at ESA.

Nonetheless, the MAP-i doctoral program is an opportunity that I want to grab with the ambition to explore new subject areas. Technology does not seduce me anymore and studying becomes again something fascinating. To do part of the MAP-i curriculum at Carnegie Mellon is, undoubtedly, my primary objective. In respect to the beginning of my PhD thesis, I could not be more expectant.

Despite the my efforts, I was able to register to the TOEFL English examination only to the 9th of May, but I believe that the two years of international experience as a foreign citizen in Germany and the daily practice of speaking and writing in English are good indicators of my English expression skills. With your consent, I will update my MAP-i application with the TOEFL results as soon as possible.

Sincerely,

Vítor Gabriel dos Reis Machado
Rodrigues

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **Rodrigues, Vítor**
 Address(es) 10, Feldmann Str., 64347, Griesheim, Germany
 Telephone(s) +4906151902267 Mobile: +351969945311
 Email(s) victor.rodrigues@esa.int
 Nationality(-ies) Portuguese
 Date of birth 21st of March, 1978 (Oporto)
 Gender Male

Occupational field **Research and Development**

Work experience

<p>Dates</p> <p>Position held</p> <p>Main activities</p> <p>Employer</p> <p>Department</p>	<p>From September 2000 to February 2003</p> <p>He began his activity with a scientific research scholarship and from September 2001 he was a professional researcher.</p> <p>He participated in several european projects of the 5th and 6th framework programs such as ORBIT (BBC R&D), ASSET (Compaq-HP, Thomson, among others) and Metavision (BBC, Snell&Wilcox, among others) which had the common objective to develop software prototypes in distributed environments for television production studios.</p> <p>INESC Porto — R&D Institution Telecommunications and Multimedia Unit</p>
<p>Dates</p> <p>Position held</p> <p>Main activities</p> <p>Employer</p>	<p>From March to August 2003</p> <p>Software Engineer</p> <p>He was responsible for the design and implementation of MFX-enabled software components (Material eXchange Format).</p> <p>MOG Solutions — a spin-off from INESC Porto</p>
<p>Dates</p> <p>Position held</p> <p>Main activities</p> <p>Employer</p> <p>Department</p>	<p>From March 2004 to February 2006</p> <p>Researcher with a scientific research scholarship</p> <p>He participated in the MEDSI european project (Telefónica I+D, GISAT, T-Soft, among others) that had the main purpose of developing a set of web-based software components for the creation of a platform for crisis management in critical infrastructures with decision-making support.</p> <p>INESC Porto — R&D Institution Information and Communication Systems Unit</p>
<p>Dates</p> <p>Position held</p> <p>Main activities</p> <p>Employer</p> <p>Department</p>	<p>From February 2006 to December 2006</p> <p>He made an internship at the European Space Agency Operations Centre (ESOC). He was involved in the study and prototyping of the SMP2 standard for modeling spacecraft simulators, specifically in Linux platforms.</p> <p>ICEP Portugal Application Mission Data System (OPS-GDA)</p>
<p>Dates</p> <p>Position held</p>	<p>Since July 2007</p> <p>Software Engineer</p>

Main activities

He performs tasks related with requirements engineering and system design including the validation and verification of the Ground Simulation Infrastructure segment. He is also responsible for the administration of Linux machines.

Employer

Oristeba — Space Services

Department

Ground Infrastructure (OPS-GIC)

Education and training

Dates

From September 2004 to July 2007

Title of qualification awarded

Master in Informatics Engineering with a final grade of “Muito Bom” (Very Good)

Principal subjects

Functional Programming and Parallel Computing

Organization

School of Engineering of the University of Oporto (FEUP)

Level in national or international classification

M.Sc.

Dates

From 6th to 16th September 2004

Title of qualification awarded

Professional formation with grade of “Elevado” (top grade)

Subject

Agile Software Development

Organization

School of Engineering of the University of Oporto (FEUP)

Dates

From 13th November to 18th December 2003

Title of qualification awarded

Professional formation with grade of 97%

Subject

Flash MX

Organization

Tecla Professional School

Dates

From September 1995 to July 2000

Title of qualification awarded

Degree in Electrical and Computer Engineering (Telecommunications, Electronics and Computers specialization) with a final grade of 15/20 (inside the group of the 10% best students)

Organization

School of Engineering of the University of Oporto (FEUP)

Level in national or international classification

5-years Engineer Degree

Personal skills and competences

Mother tongue(s)

Portuguese

*Self-assessment
European level^(*)*

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Basic user	Basic user	Basic user	Basic user	Basic user

^(*) Common European Framework of Reference (CEF) level

English

French

Social skills and competences

During his researcher activity he has developed adaptation capacities to new challenges and communication skills. Mainly, he performed technical support actions to communities of users.

Technical skills and competences

- Operating systems: Linux and Windows.
- Software Development:
 - * Object-Oriented Languages: experience in Java, ANSI C++, ActiveX, C# and Python in several development environments (ex: Eclipse, Visual Studio e .NET).
 - * Functional languages: Haskell
 - * Knowledge of Agile practices for software development: XP (Extreme Programming), TDD (Test-Driven Development) and refactoring techniques using design patterns.
 - * GNU/Linux scripting languages: Autoconf and Automake
- Distributed Systems:
 - * Java RMI (Java Remote Method Invocation)
 - * CORBA (Common Object Request Broker Architecture)
 - * EJB (Enterprise JavaBeans)
 - * .NET Remoting
 - * Web Services and Service Oriented Architectures
 - * OpenMP
- Standards:
 - * XML (eXtensible Markup Language), XML Schema, XSL Transformations (Extensible Stylesheet Language) and HTML (Hyperext Markup Language) — W3C (Work Wide Web Consortium)
 - * UML (Unified Modelling Language), CORBA (Common Object Request Broker Architecture), CORBA Components and MDA (Model-Driven Architecture) — OMG (Object Management Group)
 - * MPEG-21 (Multimedia Framework) — MPEG (Moving Picture Experts Group)
 - * MXF (Material eXchange Format) — SMPTE (Society of Motion Picture and Television Engineers)
 - * UDDI (Universal Description, Discovery, and Integration) — Microsoft, IBM, among others.
 - * SMP2 (Simulation Model Portability 2) — European Space Agency
 - * MPI (Message Passing Interface) — MPI Forum
- Web Development: PHP and Flash MX (Macromedia)

Personal skills

- GRE Scores:
 - * Verbal — 340
 - * Quantitative — 360
 - * Analytical Writing — 2.5
- TOEFL Results:
 - * Test will be done in Darmstadt in the 9th of May, 2008

Artistic skills

His secondary school specialization was on Arts Bureau where he achieved the top grade (20/20).

Other skills

He enjoys the practice of swimming, jogging and squash.

Additional information

Papers and Publications

CAISE'08

Vítor Rodrigues, João Correia Lopes, and Ana Moreira.
An Hybrid Design Solution for Spacecraft Simulators.
Montpellier, 16-20 June 2008

Vítor Rodrigues.

The Role of the Requirements Engineering in Ontology Definitions.
In the context of the course in Software Systems Requirements Engineering, Master
in Informatics Engineering, FEUP, obtaining the top grade, December 2005

Vítor Rodrigues.

Ontology-driven Architecture for Geographic Information Systems: Application Inte-
gration and Service-oriented Middleware approaches.
In the context of the MEDSI project, INESC Porto. Available online: <http://usic.inescporto.pt/papers/uddi2m.pdf>, November 2005

CONFTELE 2003

Vítor Rodrigues, José Ruela, et al.
MXF Supporting the Integration of Media Applications and Broadcasting Products.
Aveiro, June 2003

NAB2003

Vítor Rodrigues, Damien Bommart, Serge Daulard, et al.
The ASSET Architecture: Integrating Media Applications and Broadcasting Products
in a Unified Model and Framework.
Las Vegas, 7-10 April 2003

SILVINO DA CRUZ MARTINS, Chefe de Repartição da Faculdade de Engenharia da Universidade do Porto:

Certifico, em face de arquivo respectivo, que -----
VÍTOR GABRIEL DOS REIS MACHADO RODRIGUES-----
filho de Joaquim António Machado Rodrigues-----
e de Maria Lisete dos Reis Mendes Machado Rodrigues-----
natural da freguesia de Paranhos-----
concelho de Porto-----
distrito de Porto-----
concluiu nesta Faculdade, no dia vinte e oito do mês de Julho de dois mil,
o curso de Licenciatura em Engenharia Electrotécnica e de Computadores -
Ramo de Sist. Telecom. Electrónica e Computadores, com a classificação
final de quinze valores -----

A carta da referida licenciatura já foi requerida, e ser-lhe-á entregue oportunamente -----

A presente vai firmada com o selo branco desta Faculdade

Secretaria da Faculdade de Engenharia, 10 de Novembro de 2000

CHEFE DE REPARTIÇÃO

Enol = 2.50070

Conf

Emit FERNANDA

!



MATILDE FERNANDA DA ROCHA MOREIRA, Chefe de Divisão da Faculdade de Engenharia da Universidade do Porto:

Certifico, em face de arquivo respectivo, que -----

VÍTOR GABRIEL DOS REIS MACHADO RODRIGUES-----

filho de Joaquim António Machado Rodrigues -----

e de Maria Lisete dos Reis Mendes Machado Rodrigues -----

natural da freguesia de Miragaia-----

concelho de Porto-----

distrito de Porto-----

concluiu o curso de Mestrado em Engenharia Informática, desta Faculdade, no dia quatro do mês de Outubro de dois mil e sete, com a classificação final de MUITO BOM.

A carta do referido mestrado já foi requerida, e ser-lhe-á entregue oportunamente.

A presente vai firmada com o selo branco desta Faculdade.

Secretaria da Faculdade de Engenharia, 04 de Março de 2008

P¹ A CHEFE DE DIVISÃO
Branca Eugénia Mota Salgueiro

Emol. 15,04
Conf. BE
Emit. GA_SUSAN

FELICIA

CARTA DE RECOMENDAÇÃO

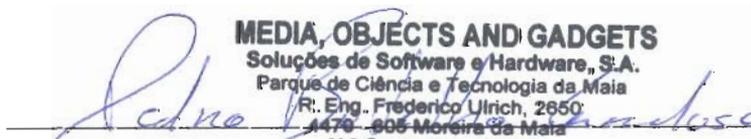
Exmo. Senhor,

Vitor Gabriel dos Reis Machado Rodrigues, trabalhou sob minha supervisão nos últimos 3 anos, inicialmente no grupo de Sistemas Distribuídos Multimédia da Unidade de Telecomunicações do **INESC Porto** e mais recentemente na **Media, Objects and Gadgets – Soluções de Software e Hardware S.A.**

O seu trabalho, enquadrado em diferentes projectos europeus e contratos de desenvolvimento internacionais, incluía o estudo, definição de arquitecturas e desenvolvimento de software no âmbito dos Sistemas Distribuídos Multimédia. A qualidade do seu trabalho reflecte-se nos elogios recebidos pelos nossos parceiros e clientes nos projectos em que participou.

É não só um trabalhador consciencioso e capaz, como também um excelente colega e um grande desportista. Lamentando a sua saída da nossa empresa, tenho no entanto a certeza absoluta que virá a ser sempre um excelente colaborador no seu percurso profissional futuro. Recomendo vivamente o Vitor Rodrigues para o desempenho de qualquer função relacionada com a sua área de competência.

Com os melhores cumprimentos,


MEDIA, OBJECTS AND GADGETS
Soluções de Software e Hardware, S.A.
Parque de Ciência e Tecnologia da Maia
R. Eng. Frederico Ulrich, 2650
4470-605 Moreira da Maia
N.º Cont. : 506 387 666
Pedro Cardoso

Presidente do Conselho de Administração



Darmstadt, 02.01.2007

To: Whom it may concern

cc: Mario Merri

your ref. / *vo*tre r f.

our ref. / *not*re r f. OPS-GDA/2007/LR/0002/DG

.....
Subject/objet: **Letter of Recommendation for Mr. Vitor Rodrigues**

The aim of this letter is to describe the work performed by Mr. Vitor Rodrigues at the European Space Operations Centre (ESOC) in Darmstadt, Germany from April 2006 to December 2006.

Vitor came as part of Portuguese INOV CONTACTO Program and he was assigned to the ESOC Application Mission Data System (OPS-GDA) Section. In particular, he closely collaborated with the group responsible for the development of Mission Control System and Spacecraft Simulators for the Earth Explorer Missions. The group is led by myself and Mr. V. Reggestad.

The background of Vitor was found immediately suitable by Mr. Reggestad for the analysis of SMP-2 (Simulator Model Portability) standard in the simulator software development. The aim was to prove the feasibility of developing in compliance with this standard on a Linux platform. The analysis included the prototype of a SMP-2 compliant model of the Goce spacecraft star tracker.

The above described activity involved Vitor almost full time for the first 4 months of the internship. The job required first of all familiarisation with the infrastructure software, development tools and environment currently used in the Agency. The job has been conducted in a high level of independency and freedom, with a clear understanding of the goal to be achieved. At the same time, he contributed with valuable comments to general review of documents produced by the Agency in the same context.

A second activity was then given to Vitor in the summer 2006. We received the first delivery of the Aeolus spacecraft simulator running on Linux platform. Again the knowledge of Vitor well fitted with our needs of technical support.

The development contract under my responsibility was the first one in the Agency using a new line of infrastructure software for Linux platform. Vitor accomplished tasks of installing, configuring and testing the simulator.

European Space Agency
Agence spatiale europ enne

ESOC

Robert Bosch Strasse 5 - 64293 Darmstadt - Germany
Tel. (49) 6151/90-0 - Fax (49) 6151/90 495

His contribution was outstanding and certainly beyond our expectations. In fact, he provided us with improvements of installation methodologies currently in use at the Agency. He proposed a way to follow in the installations of simulators that is making more effective use of Linux platform existing installation and configuration tools.

This second activity gave him the opportunity to get familiar with the Agency working environment, methodologies, tools, and people. In a short period, he grew up in relating with people and getting confidence on his potentiality. He became soon a reference for the Aeolus simulator user community providing ad hoc support in the area of testing and configuration of the Linux simulator.

During the second period of internship, he was able to complete his prototype model, including a detailed documentation of the process done and the results achieved. The experience gained in the Aeolus simulator support provided him a way to complete this first commitment.

A presentation was given to the ESOC community involved in the SMP-2 standard definition and development. The attendance demonstrated high interest in the material presented and particular interest in the documented recommendation for the future development in SMP-2.

During the internship, Vitor kept records of the work done. Those records left to the Agency a set of good quality documents that can be re-used in different areas of software development in the Agency.

Vitor was always very cooperative and versatile. He was always able to achieve and go beyond the expected goal in all the activity.

All this contributed to fully meet the expectation of the Agency and in particular of OPS-GDA Section.

His qualitative and quantitative level of work shows highly professional background, and even high level of potentiality promising the best for his future career.

Best Regards,

Damiano Guerrucci

Data System Manager

Application Mission Data System Section (OPS-GDA)

ESOC/ESA



DECLARAÇÃO

Para os devidos efeitos, declaro que o mestre **Vítor Gabriel dos Reis Machado Rodrigues**, se encontra em condições excepcionais de poder encetar e vir a concluir com êxito trabalhos de Doutoramento.

Baseio este meu parecer no conhecimento directo das suas capacidades, uma vez que tive a meu cargo a sua orientação nos trabalhos do Mestrado em Engenharia Informática, com o título “On the Specication of Spacecraft Simulators using Object-Oriented Methodologies”, que concluiu com êxito em 4 de Outubro de 2007, com a classificação final de Muito Bom. O trabalho de mestrado incluiu o estudo das técnicas de especificação de software MDD (*Model Driven Development*) e TDD (*Test Driven Development*) e a proposta da combinação das duas no projecto de construção de simuladores.

Para além do trabalho de mestrado, acompanhei ainda o trabalho do Vítor Rodrigues no projecto europeu MEDSI (número 506991) do 6º Programa Quadro do IST, que tinha como objectivo o desenvolvimento de um conjunto de componentes Web com suporte de apoio à decisão para a gestão de crises em infra-estruturas críticas.

Nestas duas orientações, o Vítor Rodrigues demonstrou possuir grandes capacidades de estudo e de trabalho autónomo, persistência e elevados conhecimentos técnicos, nomeadamente na área da especificação, produção e manutenção de software usando os paradigmas Orientado por Objectos, a utilização de Padrões de Software e o *refactoring* de software.

Para finalizar devo ainda referir que o Vitor Rodrigues foi meu aluno na disciplina de Paradigmas de Programação tendo obtido a classificação final de 17 em valores.

Faculdade de Engenharia da Universidade do Porto, 9 de Abril de 2008

João Correia Lopes
(Professor Auxiliar)

Curriculum vitae Europass

Informação pessoal

Apelido(s) - Nome(s)

Morada(s)

Telefone(s)

Correio(s) electrónico(s)

Nacionalidade(s)

Data de nascimento

Sexo

Ramo de actividade

Experiência profissional

Datas

Posição

Principais actividades

Entidade empregadora

Departamento

Datas

Posição

Principais actividades

Entidade empregadora

Datas

Posição

Principais actividades

Entidade empregadora

Departamento

Datas

Posição

Principais actividades

Entidade empregadora

Departamento

Datas

Posição

Rodrigues, Vítor

10, Feldmann Str., 64347, Griesheim, Germany

+4906151902267 Telemóvel: +351969945311

victor.rodrigues@esa.int

Portuguesa

21 de Março de 1978 (Porto)

Masculino

Investigação e Desenvolvimento

Setembro de 2000 até Fevereiro de 2003

Iniciou a sua actividade com uma bolsa de investigação científica e a partir de Setembro de 2001 foi investigador contratado.

Participou em vários projectos europeus do 5º e 6º programa quadro tais como o ORBIT (BBC R&D), ASSET (Compaq-HP, Thomson, entre outros) e o Metavision (BBC, Snell&Wilcox, entre outros) que tiveram como objectivo comum desenvolver protótipos de software em sistemas de computação distribuídos para estúdios de produção de televisão.

INESC Porto — Instituição I&D

Unidade de Telecomunicações e Multimédia

Março de 2003 até Agosto de 2003

Engenheiro de Software

Foi responsável pelo design e implementação de componentes de software de acordo com a especificação MFX (Material eXchange Format).

MOG Solutions — uma *spin-off* do INESC Porto

Março de 2004 até Fevereiro de 2006

Investigador com uma bolsa de investigação científica

Participou no projecto europeu MEDSI (Telefónica I+D, GISAT, T-Soft, entre outros) que teve como principal objectivo o desenvolvimento de componentes web na criação de uma plataforma para gestão de sistemas críticos com apoio à decisão.

INESC Porto — Instituição I&D

Unidade de Sistemas de Informação e Comunicação

Fevereiro de 2006 até Dezembro de 2006

Realizou um estágio na Centro de Operações da Agência Espacial Europeia

Esteve envolvido no estudo e prototipagem do standard SMP2 aplicado na modelação de simuladores de naves espaciais, especificamente na plataforma Linux.

ICEP Portugal

Application Mission Data System (OPS-GDA)

Desde Julho de 2007

Engenheiro de Software



Principais actividades

Desempenha funções relacionadas com engenharia de requisitos e desenho de sistema incluindo a validação e verificação do segmento de simulação Ground Infrastructure. É também responsável pela administração de sistemas Linux.

Entidade empregadora

Oristeba — Space Services

Departamento

Ground Infrastructure (OPS-GIC)

Formação académica

Datas

Setembro de 2004 até Julho de 2007

Qualificação

Mestrado em Engenharia Informática com a classificação final de “Muito Bom”

Temas principais

Programação Funcional e Computação Paralela

Instituição

Faculdade de Engenharia da Universidade do Porto (FEUP)

Nível de classificação internacional

M.Sc.

Datas

6 a 16 de Setembro de 2004

Qualificação

Formação profissional com a classificação de “Elevado” (classificação máxima)

Tema

Agile Software Development

Instituição

Faculdade de Engenharia da Universidade do Porto (FEUP)

Datas

13 de Novembro até 18 de Dezembro 2003

Qualificação

Formação profissional com a classificação de 97%

Tema

Flash MX

Instituição

Escola Profissional Tecla

Datas

Setembro de 1995 até Julho de 2000

Qualificação

Licenciatura em Engenharia Electrotécnica e de Computadores (especialização em Telecomunicações e Electrónica) com a classificação final de 15/20 valores (entre os 10% melhores alunos)

Instituição

Faculdade de Engenharia da Universidade do Porto (FEUP)

Nível de classificação internacional

5 anos de graduação em Engenharia

Competências pessoais

Língua(s) materna(s)

Portuguesa

Auto-avaliação
Nível europeu^()*

Inglês

Francês

Compreender		Falar		Escrever
Compreensão oral	Leitura	Interacção oral	Produção oral	
Utilizador experiente				
Utilizador básico				

^(*) Nível do Quadro Europeu Comum de Referência (CECR)

Competências sociais

Durante o período como investigador desenvolveu capacidades de comunicação e de adaptação a novos desafios. A sua actividade tem uma forte componente de suporte técnico a comunidades de utilizadores.

Competências técnicas

- Sistemas operativos: Linux e Windows.
- Desenvolvimento de software:
 - * Linguagens object-oriented: experiência em Java, ANSI C++, ActiveX, C# e Python em diversos ambientes de desenvolvimento (Eclipse, Visual Studio e .NET).
 - * Languages funcionais: Haskell
 - * Conhecimento de práticas Ágeis de desenvolvimento de software: XP (Extreme Programming), TDD (Test-Driven Development) e *refactoring* através de padrões de desenho.
 - * Linguagens de *scripting* GNU/Linux: Autoconf e Automake
- Sistemas Distribuídos:
 - * Java RMI (Java Remote Method Invocation)
 - * CORBA (Common Object Request Broker Architecture)
 - * EJB (Enterprise JavaBeans)
 - * .NET Remoting
 - * Web Services e Service Oriented Architectures
 - * OpenMP
- Standards:
 - * XML (eXtensible Markup Language), XML Schema, XSL Transformations (Extensible Stylesheet Language) e HTML (Hyperext Markup Language) — W3C (Work Wide Web Consortium)
 - * UML (Unified Modelling Language), CORBA (Common Object Request Broker Architecture), CORBA Components e MDA (Model-Driven Architecture) — OMG (Object Management Group)
 - * MPEG-21 (Multimedia Framework) — MPEG (Moving Picture Experts Group)
 - * MXF (Material eXchange Format) — SMPTE (Society of Motion Picture and Television Engineers)
 - * UDDI (Universal Description, Discovery, and Integration) — Microsoft, IBM, entre outros.
 - * SMP2 (Simulation Model Portability 2) — European Space Agency
 - * MPI (Message Passing Interface) — MPI Forum
- Desenvolvimento Web: PHP e Flash MX (Macromedia)

Competências pessoais

- Pontuação GRE:
 - * Verbal — 340
 - * Quantitativa — 360
 - * Escrita analítica — 2.5
- Resultados TOEFL:
 - * O exame será feito em Darmstadt em 9 de Maio de 2008

Competências artísticas

A sua especialização na escola secundária foi em Oficinas de Arte onde obteve a classificação final de 20/20 valores.

Outras competências

Gosto pela prática de natação, *jogging* e *squash*.

Informação adicional

Artigos e Publicações

CAISE'08

Vítor Rodrigues, João Correia Lopes, and Ana Moreira.
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