

# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s) **Daniel Silva Pinheiro**  
E-mail(s) dsp@civil.uminho.pt  
Nationality Portuguese  
Gender Male

## Desired employment / Occupational field

**Civil engineer**

## Work experience

Dates	14/12/2011 →
Occupation or position held	Sustainable consultancy
Main activities and responsibilities	Application of OPEN HOUSE assessment methodology in two case studies in Portugal. Elaboration of reports with results of the analysis, conclusions as well as recommendations to further improve the methodology.
Dates	21/12/2011 →
Occupation or position held	External Expert Panel
Main activities and responsibilities	Member of external expert panel of EU project "OPEN HOUSE - Benchmarking and mainstreaming building sustainability on the EU based on transparency and openness (open source and availability) from model to implementation.
Dates	2007 →
Occupation or position held	Former of Portuguese Energetic Certification System (SCE).
Main activities and responsibilities	Preparation and teaching of RCCTE module courses. Examination of candidates (engineers).
Type of business or sector	Education
Dates	2007 →
Occupation or position held	Qualified expert in Portuguese building thermal regulation (RCCTE).
Main activities and responsibilities	Analysis and certification of thermal projects. Thermal design of buildings. Evaluation of energetic performance of buildings. Energetic rehabilitation and emission of building energy certificates.
Type of business or sector	Consultancy / designer
Dates	May 2005 →
Occupation or position held	Civil engineer of Building Physics and Construction Technology Laboratory.
Main activities and responsibilities	Acquisition of relevant experience in the field of building physics and construction technologies. Collaboration on several scientific and educational projects. Evaluation of thermal and acoustic performance of buildings and constructive solutions, environmental noise, indoor air quality and infrared termography. Specialized consultancy in buildings rehabilitation, acoustic conditioning, natural ventilation and luminance behavior. Main works done: <ul style="list-style-type: none"><li>• Evaluation of sound insulation levels of "Estabelecimento de Bebidas da Casa da Calçada" in Amarante;</li><li>• Acoustic characterization of the neighborhood of a repair chop in V.N Famalicão;</li><li>• Evaluation of the causes of anomalies in a wood pavement in contact with the ground and proposal of</li></ul>

repair solutions in Penafiel;

- Evaluation of sound insulation levels between flats in a collective building in Braga;
- Evaluation of sound insulation levels between flats in a collective building in Guimarães;
- Evaluation of the annoyance criteria in Engineering School II in Gualtar Braga;
- Evaluation of sound insulation levels of facades in wood houses;
- Evaluation and proposals to improve the energetic performance of housing building in Avintes – Vila Nova de Gaia;
- Elaboration of proposals to improve the energetic performance of the DSI/DSO and Ambient Educational Center of “Águas do Douro e Paiva” in Oporto;
- Room acoustics conditioning of Municipal Assembly room of “Esposende” Municipality;
- Acoustic correction of the climatization system of spinning-mil K of “Têxtil Manuel Gonçalves, SA” in Vila Nova de Famalicão;
- Evaluation of the thermal behavior and the acoustic, illuminance and hygrometric performance of residential quarter “Bairro de S. Vicente de Paulo” in Oporto;
- Evaluation of the thermal conductivity of wood building constructive solutions;
- Design and construction control of LFTC termo-acoustical test chambers;
- Ambient impact of noise produced by motorcycling competitions in circuit “Vasco Sameiro” in Braga;
- Anomalies survey, evaluation of conservation state and thermal, acoustical, natural illumination and indoor air quality performance of 12 prefabricated kindergarden in Oporto;
- Assessment of anomalies causes of car-park standing at D. João Novais de Sousa Street in Braga. Elaboration of waterproofing membrane and drainage system rehabilitation project;
- Survey and analysis of anomalies causes in walls of the tourist post in Plaza “Santiago” in Guimarães;
- Assessment of water infiltration causes in the common parts of “Torre de Alcaldes de Faria” building in Arcozelo – Barcelos and proposal of rehabilitation solutions;
- Evaluation of natural ventilation conditions of the rehabilitation project of the San Antonio Fortress (part of UNESCO World Heritage Sites), in El Jadida, Morocco.

Collaborator in the following research projects:

- SB\_Steel - Sustainable Building Project in Steel: The project aims at improved competitive capacity of the steel construction sector by providing concepts and methods of sustainable steel-intensive building. A science-based approach to sustainability-conscious decision-making will be developed for the early building project phases that are crucial for value and performance of the completed building (pre-design/ concept phase) and for the choice of design scheme;
- LEGOUSE - Modular Prefabrication in Low Cost Buildings – QREN 2009 – funded by the National Strategic Reference Program.
- Collaborator in the project “Contribution of Thermal Active Mortars for Building Energy Efficiency”. FCT PTDC/ECM 2009-2012.
- Collaborator in the project IDES-EDU “Master and Post Graduate education and training in multidisciplinary teams implementing EPBD and beyond”. European Commission.
- Collaborator in the project “Sustainable upgrade design of an office building”. ARH 2010-2011.
- Collaborator in the project the project VEEEME Eco-RoadMap “Strategic Vision for the Eco-efficiency of Construction Companies”. Mota-Engil 2009-2010.
- Collaborator in the project SipdECO “Development of innovative eco-efficient indoor partition walls”. Project in Co-promotion with Industry QREN SIFIDE 2008-2011.
- Collaborator in the project “JEE - Janela Eco-eficiente (Eco Efficient Window)”. Awarded the BES Innovation Prize in 2007. ADI 2004-2007.
- Collaborator in the project SHE “Sustainable Housing in Europe”, contract nº EVK4-CT-2002-00104. European Commission.

Name and address of employer	Minho University - School Engineering Campus de Azurem, 4800-058 Guimaraes (Portugal)
Type of business or sector	Education / consultancy
Dates	April 2002 - April 2005
Occupation or position held	Coordinator of Construction Materials Laboratory.
Main activities and responsibilities	Acquisition of relevant experience in the field of laboratory and in situ tests in the field of Construction Materials. Collaboration on several scientific and educational projects. Specialized consultancy in Construction Materials. Main works done: <ul style="list-style-type: none"><li>• Evaluation of the concrete resistance applied in columns, external walls and stairs case in an aparthotel in Esposende;</li><li>• Evaluation of the causes of anomalies and repair solutions of “Edifício Cruz” in Couto de Cambezes;</li><li>• Evaluation of the properties of natural stone applied in Espinho Casino;</li></ul>

Name and address of employer	<ul style="list-style-type: none"> <li>• Characterization of mortars applied in “Casa de Serralves” facades in OPorto;</li> <li>• Evaluation of the causes of ceramic tiles fall in external facades of Professional School in Vila Verde.</li> </ul> Minho University Campus de Azurem, 4800-058 Guimaraes (Portugal)
Type of business or sector	Education / consultancy
Dates	May 1994 - April 2002
Occupation or position held	Coordinator of Civil Engineering Laboratory.
Main activities and responsibilities	Acquisition of relevant experience in laboratory and in-situ tests in the domain of geotechnics, construction materials, road pavements and structures. Collaboration on several scientific and educational projects. Main works done: <ul style="list-style-type: none"> <li>• Evaluation of the superficial state of Portuguese road network of IP’s, IC’s and OE’s;</li> <li>• Realization and result treatment of geotechnical and road pavements laboratory and field tests in sections representative of the Portuguese road network;</li> <li>• Instrumentation of the foundation soil and granular layers of a section of EN206 road;</li> <li>• Instrumentation and monitorization of main facade of S. Torcato church.</li> </ul>
Name and address of employer	Minho University Campus de Azurem, 4800-058 Guimaraes (Portugal)
Type of business or sector	Education / consultancy
Dates	July 1994 - December 2004
Occupation or position held	Independent professional.
Main activities and responsibilities	Civil engineer designer.  Main works done: <ul style="list-style-type: none"> <li>• Restoration / renovation of the Day Centre building, in “Parada do Pinhão” - Execution of structural, water supply, rainwater drainage, wastewater drainage, thermal behavior and acoustic conditioning projects;</li> <li>• Refurbishment and adaptation of building for rural tourism in “Vila Verde” - Execution of structural project;</li> <li>• Refurbishment of housing and commerce building in “D. António Barroso” street in Barcelos - Execution of structural, water supply, rainwater drainage, wastewater drainage projects;</li> <li>• Refurbishment of a water-mill to install de “River Museum” in Barcelos - Execution of structural, water supply, rainwater drainage, wastewater drainage, thermal behavior projects;</li> <li>• Reconstruction and expansion of an office, commerce and hotel building in the street corner of “Avenida da Liberdade” and “Avenida dos Combatentes da Grande Guerra, in Barcelos. Execution of structural, water supply, rainwater drainage, wastewater drainage, thermal behavior and acoustic conditioning projects;</li> <li>• General Electric SA - Structural analysis and reinforcement design of a concrete floor for the installation of a magnetic resonance equipment in Barcelos;</li> <li>• Nuclear Medicine Center in Guimarães - Structural analysis and reinforcement design of wood floor for installation of two Gamma-chamber;</li> <li>• Urbanistic arrangement of “Largo da Fonte” in Barcelos. Execution of water supply, rainwater drainage and wastewater drainage projects;</li> <li>• Reconstruction and adaptation for rural tourism of “Quinta do Esquilo” in Braga - Execution of structural, water supply, rainwater drainage, wastewater drainage, thermal behavior and acoustic conditioning projects;</li> <li>• Reconstruction and expansion of “Merouços” School in Santo Tirso - Execution of structural, water supply, rainwater drainage, wastewater drainage, thermal behavior and acoustic conditioning projects.</li> </ul>
Type of business or sector	Designer / consultancy
Dates	10/1994 - 05/2009
Occupation or position held	Technical Director of the following construction company:
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• Oct./94 a Dec./95 – Technical Director of company “Alberto da Cunha Gonçalves”;</li> <li>• Jan./96 a Set./96 - Technical Director of company “Salvador &amp; Cia, Lda”;</li> <li>• Oct./96 a Nov./01 - Technical Director of company “Joaquim Peixoto, Lda”;</li> <li>• Dec./01 a Jun/05 - Technical Director of company “José B.M Santos, Lda”;</li> <li>• Jan./08 a May/09 - Technical Director of company “José B.M Santos, Lda”.</li> </ul>

## Education and training

Dates	12/12/2011 - 14/12/2011
Principal subjects / occupational skills covered	OPEN HOUSE - Benchmarking and mainstreaming building sustainability in the EU based on transparency and openness (open source and availability) from model to implementation training course
Name and type of organisation providing education and training	OPEN HOUSE consortium London (United Kingdom)
Dates	17/06/2011 - 18/06/2011
Principal subjects / occupational skills covered	SBTOOL <sup>pt</sup> training course
Name and type of organisation providing education and training	Minho University Guimaraes (Portugal)
Dates	2008 →
Title of qualification awarded	Former and Qualified Expert.
Principal subjects / occupational skills covered	Portuguese building thermal behavior regulation (RCCTE).
Name and type of organisation providing education and training	ADENE Rua Dr. António Loureiro Borges, nº 5 - 6º andar, 1495-131 ALGÉS Arquiparque - Miraflores (Portugal)
Dates	2006 →
Title of qualification awarded	Pos-graduation course in management, building physics and construction technologies.
Principal subjects / occupational skills covered	The pos-graduation course offers a set of learning units from the Civil Engineering scientific areas (management, constructions, construction materials, buildings physics and constructions sustainability). Students will be competent to use better management techniques, comprehend buildings physics and evaluate the sustainability of constructions and to choose, amongst the several possible solutions, the ones that better fulfil the sustainability requirements, eco-efficiency, economy, simplicity of execution, safety and durability, ensuring the sustainable construction and/or rehabilitation of buildings.
Name and type of organisation providing education and training	Minho University Campus de Azurem, 4800-058 Guimaraes (Portugal)
Level in national or international classification	Very Good
Dates	1996 - 2010
Principal subjects / occupational skills covered	Conference / seminar participation: <ul style="list-style-type: none"> <li>• Earthwork of highway road in LNEC, Lisbon;</li> <li>• Historical constructions – Possibilities of numerical and experimental techniques, in UMINHO University, Guimarães;</li> <li>• Nacional conference of building pathologies and rehabilitation, 1st edition – PATORREB 2003, FEUP, Oporto;</li> <li>• Waste valorization in geotechnics works, in UMINHO University, Guimarães;</li> <li>• Wood in constructions, in UMINHO University, Guimarães;</li> <li>• Nacional congress of seismology and seismic engineering, in UMINHO University, Guimarães;</li> <li>• Nacional conference of building pathologies and rehabilitation, 2nd edition – PATORREB 2006, FEUP, Oporto;</li> <li>• INTERNATIONAL SYMPOSIUM POLYMERS IN CONCRETE in UMINHO University, Guimarães;</li> <li>• Structural concrete nacional conference in UMINHO University, Guimarães;</li> <li>• Portugal SB10 “Sustainable Building Affordable to All” in Vilamoura.</li> </ul> <p>Formation courses:</p> <ul style="list-style-type: none"> <li>• Design of building gas networks in IDT, Oporto;</li> <li>• Industrials wastes in AIMinho, Guimarães;</li> <li>• Construction pathology and rehabilitation in UMINHO University, Guimarães;</li> </ul>

- The quality manual in laboratories in RELACRE, Lisbon;
- Management of inspection, measurement and test of laboratory equipments in RELACRE, Lisbon;
- Mechanical characterization of materials in quality warranty in RELACRE, Lisbon;
- Intermediate English course in UMINHO University, Guimarães;
- Intensive upper-intermediate English course in UMINHO University, Guimarães;
- Harmonized standards and construction products marking in UMINHO University, Guimarães;
- Construction sustainability – New regulations, quality, security and innovation in UMINHO University, Guimarães;
- Intensive English course “Developing Skills in English 2007-2008” in UMINHO University, Guimarães;
- Portuguese building thermal behavior regulation (RCCTE) Former and Qualified Expert course in FEUP, Oporto;
- RCCTE Energy certification of existing buildings - calculation method in ADENE in FEUP, Oporto.

Dates 1994 →

Title of qualification awarded Msc. Civil Engineer

Principal subjects / occupational skills covered The curriculum of the Civil Engineering course was prepared in order to give an effective answer to the professional requirements and market needs. The program enables a wide and diverse knowledge for students. Curriculum areas include:

- Structural Analysis;
- Geotechnics;
- Hydraulics;
- Construction;
- Construction Materials;
- Highways;
- Road pavement;
- Planning and Architecture.

The professional title of Engineer demands formal enrolment of the National Engineers Professional Association. The UMinho Civil Engineering degree is credited by this Professional Body being the students excused of doing the national examination to become engineers.

Name and type of organisation providing education and training Minho University  
Campus de Azurem, 4800-058 Guimaraes (Portugal)

Level in national or international classification Good

### Personal skills and competences

Mother tongue(s) **Portuguese**

Other language(s)

Self-assessment  
European level (\*)

**French**  
**English**  
**Spanish**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	A2	Basic User

(\*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences Team spirit, good ability to cooperate with other workgroups;  
Order and organization;  
Good communication with foreign and customers.

Organisational skills and competences Good experience in project management;  
Leadership and coordination of teams;  
Sense of organization;

	Training of laboratory technicians and students.
Technical skills and competences	Learning: A quick learner. Easy to adjust in new environments.
Computer skills and competences	Operating systems: DOS, Windows 3.x/9x/NT/2000/XP; Microsoft Office™ and OpenOffice.org tools; Internet and communication software; Academic and Commercial softwares: AutoCAD, CYPE, ROBOT MILLENIUM, COP, RESICAD, HIDROCAD, EASE, ACOUBAT, SOLTERM, SBTOOL, SVTOOL, Insul. Programming languages: Basic, HTML.
Driving licence(s)	B
<b>Additional information</b>	<p>Main interest area:</p> <ul style="list-style-type: none"> <li>• Sustainable Construction;</li> <li>• Building physics and construction technology;</li> <li>• Building energy conservation and management;</li> <li>• Building conservation and rehabilitation;</li> <li>• Environment and Sustainable Development.</li> </ul> <p>Professional Association:</p> <ul style="list-style-type: none"> <li>• Senior member of Ordem dos Engenheiros.</li> </ul> <p>Publications in conferences:</p> <ul style="list-style-type: none"> <li>• F.F.Martins, F.E.R Pinheiro, D.S. Pinheiro, J.B.Martins. Correlations beetwen pairs of properties of some portuguese granitic rocks. GEOENGINEERING ENVIRONMENT AND MINING, ISSN 1121-9041, December 2001;</li> <li>• D. S. Pinheiro, L. Bragança, J. L. Barroso Aguiar. Descolagem de um revestimento cerâmico em Fachada". Article presented at "2º ENCONTRO NACIONAL SOBRE PATOLOGIA E REABILITAÇÃO DE EDIFÍCIOS – PATORREB 2006"</li> <li>• D. S. Pinheiro, L. Bragança, J. L. Barroso Aguiar. Estudo de um edifício de habitação multifamiliar com anomalias não estruturais. Article presented at "2º ENCONTRO NACIONAL SOBRE PATOLOGIA E REABILITAÇÃO DE EDIFÍCIOS – PATORREB 2006"</li> <li>• L. Bragança, E. Freitas, D. S. Pinheiro. "Eficácia de barreira acústicas" published in the proceedings of TECNACUSCITA, October 2006 in Gandia – Spain.</li> </ul> <p>University teaching experience</p> <ul style="list-style-type: none"> <li>• Academic year 94/95 – Topography;</li> <li>• Academic year 95/96 – Road pavements;</li> <li>• Academic year 95/96 – Road network conservation;</li> <li>• Academic year 96/97 - Road pavements;</li> <li>• Academic year 03/04 – Construction materials I and Construction materials II;</li> <li>• Academic year 04/05 – Construction materials I.</li> </ul> <p>Conference Organization:</p> <ul style="list-style-type: none"> <li>• Member of organizing committee of the International Conference "Portugal SB10 – Sustainable Building affordable to all", 17-19 March 2010, Vilamoura.</li> <li>• Member of organizing committee of INTERNATIONAL SYMPOSIUM POLYMER IN CONCRETE – ISPIC 2006 taken place at Minho University between 2 to 4 April 2006.</li> </ul>

#### Collaboration in Books

- Ricardo Mateus e Luís Bragança, "Avaliação do Ciclo de Vida dos Edifícios - impacte ambiental de soluções construtivas". ISBN: 978-989-96543-3-4, Lisboa, 2011.

#### Prototypes

- Rehabilitation project and adaptation of Real Scale Multifunctional Test Cells: LFTC, Campus de Azurém, University of Minho. 2011.
- Rehabilitation project and adaptation of Real Scale Non-conventional Building Test Cells: LFTC, Campus de Azurém, University of Minho. May 2011.
- Test Cells to Measure Airborne Sound Insulation and Thermal Insulation of Walls: LFTC, Campus de Azurém, University of Minho. Completed in March 2010.
- JEE "Janela Eco-Eficiente" Eco-efficient Window: LFTC, Campus de Azurém, University of Minho. Completed in June 2006.