Sergio Conde Martín

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OBJECTIVE

To achieve my ambition of becoming a professional investigator making the most of the opportunity that my current scholarship offers through its internship programs.

SCIENTIFIC PUBLICATIONS

2013 Sergio Conde Martin, Juan C. García Orden and Ignacio Romero. "Energy-consistent time integration for nonlinear viscoelasticity". Sent to the peer-reviewed journal Computational Mechanics in May.

2011 Juan C. García Orden and Sergio Conde Martín. "*Controllable velocity projection for constraint stabilization in multibody dynamics*". Published in October in Nonlinear Dynamic. DOI: 10.1007/s11071-011-0224-y

CONGRESS PARTICIPATION

2011 Congress on Numerical Methods in Engineering 2011 CNME which took place in Coimbra (Portugal), from 14-17 June and where I participated as **reader of the paper**: "*Controllable velocity projection for constraint stabilization in multibody dynamics*".

EDUCATION

2010 **Technical University of Madrid – MSc project**:

On Conservative Integration in Parallel Distributed Computation

- Awarded with 1st class (9/10) in September 2010
- Researched state-of-the art Hamiltonian systems time integration. Produced and published written thesis, presented work to colleagues in oral presentation.

2009-2010 **Technical University of Madrid – MSc Engineering of Structures, Foundation and Materials (1yr course)**

2008-2009 **University of Seville – Master thesis and project:**

Vibratory Compacting System Analysis.

- Awarded with 1st class (10/10) in September 2010

2003-2008 **University of Seville – MEng Mechanical Engineering (5 yr course).**

390 ECTS credits with an overall mark of 7.5/10 (1st class UK equivalent).

- Completed several research projects and important coursework, mainly in the Finite Element Method and Continuous Media.
- Improved important 'soft' skills like written and oral communication, teamwork, time management and critical thinking.

1999-2003 **I.E.S. Albero College. Secondary studies and A levels**

Physics, Chemistry, Maths, Biology, plus History, Spanish, English, French and Graphic design at A2 level (7.4/10).

SCIENTIFIC EXPERIENCE

2011 **Technical University of Madrid – Research Project:** "Development of numerical algorithms for multi-scale mechanical systems' simulation in distributed computation"

Funding by Spanish Education Ministry, National Plan (DPI2009-14305-C02-02. SP-2)

2009 **University of Seville – R & D Project: "Análisis del diseño mecánico, elaboración**

del diseño estructural, análisis dinámico y asesoramiento en la construcción y pruebas del sistema procesador de bioetanol".

- Dynamic study of Hydrogen battery included in a submarine, using FEM, and its component design, as well as its bracket design. Preparation of FEM set meshes assembled from imported CAD geometries made.
- R & D Project for Hynergreen S.A.

2008 **University of Seville – R & D Project: "Investigación del proceso de vibrocompresión al vacio para la fabricación de aglomerados de cuarzo"**

- Dynamic study of vibratory process which takes place into the process of production of slabs of granulated stone materials and/or sands bound with a hardenable resin. Modelling dynamic vibration system using MATLAB. Taking field measurements of the vibrating system and data processing to contrast with the model made.
- R & D Project for Cosentino S.A.

MERITS AND AWARDS

Spanish Education Ministery: F.P.U program 2010 – International Grants

Awarded with a studentship for a PhD in Engineering of Structures, Foundation and Materials at Technical University of Madrid. Shortlisted within the 950 awarded among 6094 applicants. Could not accept it because of being in possession of a similar studentship from Technical University of Madrid.

OTHER EXPERIENCE

2007-2008 **INERCO S.A Cartuja Technological Park, Sevilla, Spain.**

Grant holder in the department of projects, civil works section. Computation of structures and foundations using the computer program CYPE.

COMPETENCES AND PERSONAL SKILLS

Computer Skills: Up to date experience and knowledge in UNIX systems, Windows® OSs, Office® Suite.

MEF & CAD Skills: Academic experience in ANSYS®, NX-IDEAS®, ANSYS-ICEM, ABAQUS®, SolidWorks®, SolidEdge®, AutoCad®, CorelDraw®.

Programming languages: Proficient in Matlab®, Octave, C++, C, Kdevelop IDE, Eclipse IDE and LaTeX editing.

Languages: Native in Spanish, fluent in English with good verbal, writing and reading skills (B2 common Europe frame, accredited by International University of Menendez and Pelayo). Basic French.

Personal Skills: I find myself a natural communicator, creative and keen on teamwork. I am very keen to participate in challenging projects. One of them is to fulfil my dream of becoming a researcher, a role I believe that discipline and good-organisation skills are vital, as well as self motivation. Completing successfully demanding engineering degrees has allowed me to develop a high level of commitment, being also able to appreciate the rewards of hard working.

Other Skills: I have a passion for history and literature and enjoy every bit of it: from reading books to writing. I believe history is so part of us that the more we know it the better we understand our own life. Besides, I feel that music allows me to both relax and disconnect from my daily routine. I also love doing sports, like jogging or football, going to the cinema and watching a good TV series. One of my passions is travelling, which I would like to experience more and more with my family, friends, and to meet new people in every place.