

▶ Juan Pablo Torres

Nationality: Argentine/Spaniard

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Education

▶ University

- **Materials Engineering Degree: Materials Engineer**, December 2009, School of Engineering, National University of Mar del Plata.

▶ Computer Skills

- SolidWorks and Autodesk Inventor, 3D CAD Design Software
- ABAQUS Standard/Explicit, Finite Element Analysis Simulation Software
- Moldflow and Moldex, Injection Molding Simulation Software
- FORTRAN 90 Language Programming , Mathcad and Matlab Enviroment

▶ Language Skills

- TOEFL ITP, October 2010, Score Obtained: 640 points
- First Certificate in English, University of Cambridge, December 1997

Professional Experience

▶ **Materials Engineering Internship**, January 2008 to April 2008 **TenarisSiderca Steel Manufacturing Facility, Techint Group, Buenos Aires, Argentina**

Supervisor: Dr. Guillermo Echaniz (gechaniz@siderca.com)

Developed Tasks:

- Monitoring of the various stages of production procedures and activities taken during the manufacturing process of a proprietary grade steel at the TenarisSiderca facilities.
- Evaluation of laboratory test results (Uniaxial Tensile Test, Charpy Impact and Hardness Tests).
- Metalographic studies by optical microscopy for steel microstructure characterization
- Failure Analysis using Electron Microscopy (SEM)
- Exhaustive bibliographical search of information related to the mentioned steel.
- Drafting and preparation of a final report in English language.

▶ **Electronics and design**, February 2009 to December 2009 **Zen Effects, Mar del Plata, Argentina**

Developed Tasks:

- Development of electronic audio and sound effects.
- SolidWorks and Autocad design of metal housings for electronic circuits.

Teaching and Research Experience

► **Graduate Teaching Assistant**, March 2010 to Present

- Polymer Mechanics course (Structural Properties II)
Materials Department, School of Engineering, National University of Mar del Plata, Argentina
- Physics II (Electromagnetism) course
Physics Department, School of Engineering, National University of Mar del Plata, Argentina

► **Undergraduate Teaching Assistant**, March 2007 to March 2010

Physics I and Physics II courses
Physics Department, School of Engineering, National University of Mar del Plata, Argentina

► **Undergraduate Research Assistant**, December 2006 to May 2007

Research Institute for Materials Science and Technology (INTEMA), National University of Mar del Plata, Argentina
Assistant to Professor José Manuel Porto López (jmplopez@fi.mdp.edu.ar)

Awards and Scholarships

► **Erasmus Mundus EUROTANGO scholarship**, May 2011 to November 2011
Postgraduate research stay at the Product and Automated Manufacturing Design Institute, Polytechnic University of Valencia, Spain

Supervisor: Dr. Juan A. Garcia (jugarcia@mcm.upv.es)

► **Polymer Mechanics Scholar**, April 2010 to present
Research Institute for Materials Science and Technology (INTEMA), National University of Mar del Plata, Argentina

Supervisor: Dr. Patricia Frontini (pmfronti@fi.mdp.edu.ar)

Developed Tasks:

- Mechanical testing and failure analysis of polymeric materials.
- Modeling and finite element simulation of the mechanical behavior of complex geometry parts.
- Preparation of technical reports.

Thesis Proposal: Software Implementation and calibration of constitutive equations for polymers subject to high strain rate and impact conditions

Postgraduate courses taken include: Advanced Continuum Mechanics, Finite Element Analysis on ABAQUS for Solid Mechanics, Applied Mathematics for Indirect Measurements and Damage Mechanisms on Solid Materials.

► **Distinguished Graduate Diploma**, March 2010
School of Engineering, National University of Mar del Plata, Argentina

Diploma granted in recognition for obtaining a final grade average well above the historic average for the carrer (8.10 on a scale of 10.0)

Conference Proceedings

- ▶ **3rd SAM (Argentine Society of Materials) young researchers meeting**, 18-19 August 2010, National Technological University (UTN), Entre Rios, Argentina
“Atomistic Model Simulations for etching processes in Si”, Presentation of career final project
- ▶ **3rd Workshop on Soft Matter**, November 2010, Mar del Plata, Argentina
“Constitutive equations for polymers in compression and confined compression load modes”
Poster Presentation