



**Pablo Barrio Lopez-Cortijo**

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**Pablo Barrio Lopez-Cortijo**

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**Current professional situation only if working (not if unemployed)**

**Name of the entity:** Universidad Politécnica de Madrid      **Type of body:** University  
**Department, Service,...:** Ingeniería Electrónica, Escuela Técnica Superior de Ingenieros de Telecomunicación  
**Category / Title of position or responsibility:** Contratado Universidad Politécnica de Madrid Homologado      **Educational management:** NO  
**City of job:** Madrid, Community of Madrid, Spain  
**Start date:** 02/03/2012  
**Modality of the contract:** Permanent employment contract      **Type of dedication:** Full time

**Positions held before current job**

	<b>Name of the entity</b>	<b>Category / position or responsibility</b>	<b>Start date</b>
<b>1</b>	Universidad Politécnica de Madrid	Becario Universidad Politécnica de Madrid Homologado	15/12/2009
<b>2</b>	RETECOM	Programador junior	01/10/2007
<b>3</b>	Berkano Systems SLL	Programador	01/09/2005

**1** **Name of the entity:** Universidad Politécnica de Madrid      **Type of body:** University  
**Department, Service,...:** Ingeniería Electrónica, Escuela Técnica Superior de Ingenieros de Telecomunicación  
**City of job:** Madrid, Community of Madrid, Spain  
**Category / position or responsibility:** Becario Universidad Politécnica de Madrid Homologado      **Teaching Management:** NO



**Start date:** 15/12/2009 , 2 years - 3 months

**Modality of the contract:** Grant-assisted student (pre or post-doctoral, others)

**Type of dedication:** Full time

**2 Name of the entity:** RETECOM

**Type of body:** Business

**City of job:** Madrid, Otros, Spain

**Category / position or responsibility:**

**Teaching Management:** NO

Programador junior

**Start date:** 01/10/2007 , 10 months

**Modality of the contract:** Permanent employment contract

**Type of dedication:** Full time

**3 Name of the entity:** Berkano Systems SLL

**Type of body:** Business

**City of job:** Madrid, Otros, Spain

**Category / position or responsibility:**

**Teaching Management:** NO

Programador

**Start date:** 01/09/2005 , 10 months

**Modality of the contract:** Temporary employment contract

**Type of dedication:** Part time



## Training received

### University education

#### Diplomas, degrees and engineering degrees

**Official University Qualification:** Higher degree

**Name of qualification:** Ingeniero en Informática

**City of qualification:** Madrid, Otros, Spain

**Entity issuing the qualification:** Universidad Autónoma de Madrid

**Type of body:** University

**Date of qualification:** 14/04/2008

**Average marks:** Pass

#### Other postgraduate university training

**Type of Training:** Master

**Postgraduate qualification:** MSc in High Performance Computing

**City:** Otros, United Kingdom

**University:** University of Edinburgh

**Type of body:** University

**Date of qualification:** 03/12/2009

**Mark :** 7.6

## Teaching experience

### Teaching work

**Type of teaching:** Official teaching

**Name of subject/ name of course:** Laboratorio De Sistemas Electronicos

**Type of programme:** Engineering

**Type of teaching:** Laboratory work

**Type of subject:** Obligatory

**Title :** Ingeniero de Telecomunicación

**Course of the qualification taught:** 2011-12

**Hours/credits:** Credits

**Number of hours/credits:** 6

**Body where project took place:** Universidad Politécnica de Madrid

**Type of body:** University

**Department:** Ingeniería Electronica

**Language in which the subject is taught:** Spanish



## Experience in Science and Technology

### Participation in research, development or innovation groups / teams

**Name (if applicable):** Laboratorio de Sistemas Integrados (LSI)  
**Name of the head researcher of the group (HR):** Carlos Alberto Lopez Barrio  
**City :** Madrid, Community of Madrid, Spain  
**Body the group belongs to:** Universidad Politécnica de Madrid  
**Start date:** 14/06/2005

### Scientific or technological activity

#### Participation in R&D&I projects funded in competitive tenders by public or private bodies

- 1 Name of the project:** SISTEMAS UWB MULTIELEMENTO Y RECONFIGURABLES PARA APLICACIONES AVANZADAS DE SEÑAL: DISEÑO MICROELECTRONICO  
**City :** Unknown  
**Head(s) researcher(s):** Carlos Carreras Vaquer  
**Number of participating researchers:** 8  
**Funding body or bodies:** Ministerio de Ciencia e Innovación      **Type of body:** Body, others  
**Code according to the funding body:** C09092008  
**Start date:** 14/12/2009  
**Total amount:** 165.165
- 2 Name of the project:** CORESIMULAERO  
**City :** Unknown  
**Number of participating researchers:** 2  
**Funding body or bodies:** MINETUR      **Type of body:** MINETUR  
**Code according to the funding body:** TSI-020100-2010-827
- 3 Name of the project:** PROYECTO CORESIMULAERO  
**City :** Spain  
**Head(s) researcher(s):** Eusebio Valero Sanchez  
**Number of participating researchers:** 8  
**Funding body or bodies:** MICINN      **Type of body:** MICINN  
**Code according to the funding body:** P110120228
- 4 Name of the project:** AMURA  
**City :** Unknown  
**Head(s) researcher(s):** Angel Fernandez Herrero  
**Number of participating researchers:** 5  
**Funding body or bodies:** MICINN      **Type of body:** MICINN  
**Code according to the funding body:** TEC2009-14219-C03-02



## Participation in R&D&I contracts, agreements or projects, not the result of competitive bidding, with companies (or internally in them) and/or governments

- 1** **Name of the project:** PEDIDO A8213093 G  
**City :** Spain  
**Head researcher:** Carlos Carreras Vaquer  
**Number of participating researchers:** 8  
**Funding body:** Airbus España S.L. **Type of body:** Body, others  
**Start date:** 28/11/2008  
**Total amount:** 257.213
- 2** **Name of the project:** DOVRES  
**City :** Unknown  
**Number of participating researchers:** 1  
**Funding body:** EADS Airbus **Type of body:** Body, others

## Results

### Intellectual and industrial property. Know how and industrial secrets

- 1** **Name:** Sistemas y métodos para mejorar la ejecución de algoritmos computacionales  
**Description of qualities:** The present invention refers to methods and systems for the execution of computational algorithms and more in particular to methods and systems for solving the equations of a given scientific code such as one of the codes used in Computational Fluid Dynamics (CFD) for a large dataset represented as a mesh.  
**Type of industrial property:** Patent of invention  
**Date:** 27/05/2011  
**Spain patent:** SI  
**Licences:** SI
- 2** **Name:** Systems and Methods for Improving the Execution of Computational Algorithms  
**Description of qualities:** The present invention refers to methods and systems for the execution of computational algorithms and more in particular to methods and systems for solving the equations of a given scientific code such as one of the codes used in Computational Fluid Dynamics (CFD) for a large dataset represented as a mesh.  
**Type of industrial property:** Patent of invention  
**Spain patent:** NO  
**Licences:** NO



## Scientific Activities and General Techniques

### Scientific production

#### Work presented in conferences at the national or international level

- 1** **Title:** Turning Control Flow Graphs into Function Calls: Code Generation for Heterogeneous Architectures  
**Name of the conference:** High Performance Computing and Simulation (HPCS), 2012 International Conference on  
**Your role:** Speaker  
**Date of the event:** 02/07/2012  
**City:** Madrid,  
Pablo Barrio Lopez-Cortijo . "High Performance Computing and Simulation (HPCS), 2012 International Conference on".pp. 559 - 565.ISBN 978-1-4673-2359-8
- 2** **Title:** Mesh traversal and sorting for efficient memory usage in scientific codes  
**Name of the conference:** Performance Computing and Communications Conference (IPCCC), 2011 IEEE 30th International  
**Your role:** Speaker  
**Date of the event:** 17/11/2011  
**City:** Orlando, EEUU,  
Pablo Barrio Lopez-Cortijo . "Performance Computing and Communications Conference (IPCCC), 2011 IEEE 30th International".pp. 1 - 8.ISBN 1097-2641

#### Other publishing activities.

**Title or object:** Turning Control-flow Graphs into Callgraphs - Transformation of Partitioned Codes for Execution in Heterogeneous Architectures  
**Type of event:** Conferences given  
**City of the publishing body:** Londres, United Kingdom  
**Organising body:** ARM  
Pablo Barrio Lopez-Cortijo .



## Other credits

### Residencies in R&D&I centres or companies in your own country or abroad

- 1** **City:** Paderborn, Alemania,  
**Start date:** 01/09/2011 , 92 days
- 2** **City:** Edimburgo,  
**Start date:** 01/10/2008 , 330 days

### Grants and scholarships obtained

- 1** **Name of the scholarship:** ANÁLISIS Y PARTITIONADO DE CÓDIGOS CIENTÍFICOS PARA SU EJECUCIÓN EN ARQUITECTURAS HETEROGÉNEAS  
**City :**  
**Purpose :** Pre-doctoral  
**Issuing body:** Universidad Politécnica de Madrid      **Type of body:** University  
**Amount of the scholarship:** 57.000  
**Date of credit:** 01/01/2010
- 2** **Name of the scholarship:** EPSRC Training Centres Programme  
**City :**  
**Purpose :** Pre-doctoral  
**Issuing body:** EPSRC      **Type of body:** Body, others  
**Amount of the scholarship:** 6.300  
**Date of credit:** 01/10/2008