

## David Villegas

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### EDUCATION

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- 2007 Florida International University** **Miami, FL**  
Working towards a Master's Degree in Computer Science.
- 2005 Autonomous University of Barcelona** **SPAIN**  
Obtained the title of Systems Computer Engineer
- 2003 Florida International University** **Miami, FL**  
Took different courses in Computer Science at undergraduate level such as Advanced Windows Programming, Software Engineering I and II, Software Engineering project or Data Structures.
- 2002 Autonomous University of Barcelona** **SPAIN**  
Took Linux administration course, diploma received.

### RESEARCH EXPERIENCE

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- 01/2007 – 05/2007 Florida International University** **Miami, FL**  
Research assistant for GRID computing and Metascheduling. Additionally, worked in the set-up and management of a computational cluster.
- 08/2006 – 12/2006 Florida International University** **Miami, FL**  
Worked in project *Revision to Transparent Reflective Aspect Programming in Java* under supervision of Professor M. Sadjadi.

### WORK EXPERIENCE

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- 2005 - 2007 TECHIDEAS ASESORES TECNOLÓGICOS** **SPAIN**  
<http://www.techideas.es>  
*Software Developer*
- Worked as a software developer in different software projects, both private and public funded. Among them:
- Took part in the design and implementation of a Linux embedded taximeter using C++ and an Object Oriented architecture. Worked in the fleet communication system and the graphical user interface.
  - In charge of the work package *Prototyping and Validation* for a European funded project (BIONETS [www.bionets.org](http://www.bionets.org)) in collaboration with SUN Microsystems Ibérica. Duties were to develop a working prototype to validate the theoretical outcome of the project.
- 2004 - 2005 INSTITUT DE FÍSICA D'ALTES ENERGIES** **SPAIN**  
Autonomous University of Barcelona  
<http://www.ifae.es>  
*Linux Administrator*
- Linux administrator for the project CDF (the Collider Detector at Fermilab) in collaboration with Fermilab, Chicago. Main duties were to set up and administrate a computer cluster and to give assistance to its users and to help in the transition to GRID computing.
- 2003 - 2004 CMOS AUDITORS** **SPAIN**  
[www.cmosauditors.com](http://www.cmosauditors.com)  
*Junior developer*
- Worked developing web applications in ASP for different clients

## **ACHIEVEMENTS**

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### **2005**

Received the highest grade in the degree's final project « Study on design patterns for a computer game »

### **2002**

Received a scholarship from the Autonomous University of Barcelona to study for one year at FIU as an exchange student

### **1999 - 2002**

General scholarship from the Ministry of Education and Culture for the degree of Computer Engineering at the Autonomous University of Barcelona

## **VARIOUS**

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### **LANGUAGES**

- Spanish and Catalan: mother tongue
- English: fluent

### **SKILLS**

- Programming languages: C/C++, Java/JSP, Ruby, PHP, Web (HTML and Javascript)
- GUI development with MFC/Win32 using Visual C++ and Trolltech's QT (embedded and X11/Windows), graphics development with SDL
- Embedded systems development with ARM architectures and Linux
- Databases: MySQL