CURRICULUM VITAE
Date: August 05, 2006

A. PERSONAL DATA:

NAME AND LAST NAME: Miguel Omar Fagúndez Córcega.
DOCUMENT OF IDENTITY: 14.742.102
PLACE AND DATE OF BIRTH: December 14, 1979. Valencia, Venezuela.
CITIZENSHIP: Venezuelan.
PERSONAL ADDRESS: Calle 134 "Los Árboles" #106A-111 Casa 253-C. Urb. Prebo, Valencia, Edo. Carabobo-Venezuela.
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B. EDUCATION:

MASTER OF COMPUTER SCIENCES (Numeric Análisis and Computation). Universidad Central de Venezuela. Caracas, Venezuela. (At the moment)
BACHELOR, COMPUTER SCIENCES. Universidad de Carabobo, Carabobo, Venezuela (December, 2003).

C. EMPLOYMENT HISTORY:

1. Numerical Programmer, Exploration and Production Department, PDVSA-INTEVEP. Los Teques, Venezuela (December, 2005 – At the moment). Numeric Discretizations, POO and Scientific Visualization.
2. Assistant Professor, Engineering Faculty, Universidad José Antonio Páez, (March, 2004 – At the moment). Discreet Structures and Computer Graphics.
3. Hired Professor, Sciences and Technology Faculty, Universidad de Carabobo (October, 2004 – July, 2005). Mathematics.
4. Hired Professor, Engineering Faculty, Universidad Alejandro de Humboldt (August, 2004 – September, 2005). Numeric Programming and Algorithms.

5. Analyst Programmer, Systems Department, Corporación Principal, (January, 2004 – April, 2004). POO (Objects Programming).
6. Teaching Assistant, Sciences and Technology Faculty, Universidad de Carabobo, (November 1999 – December 2003). Discreet Mathematics.
7. Analyst Programmer, System Department, TRIPOLIVEN C.A., (July, 2002 – October, 2002). Oracle Data Base, PL-SQL and Visual Basic Applications.

D. HONORS AND AWARDS :

1. 5 of the Promotion in Computer Sciences (35 Graduate), December, 2003.
2. Scholarship Gran Mariscal of Ayacucho Fundation, FUNDAYACUCHO, July, 1999.

E. CONGRESSES AND PUBLICATIONS:

1. M. Fagundez, J. Medina, C. Cadenas y G. Larrazabal. ***"Mimetic Discretizations for Computacional Fluid Dynamics: One-Dimensional Case"***. Engineering UC Journal, Vol. 11, No 3, 52-57, December, 2004.
2. M. Fagundez, J. Medina, C. Cadenas, G. Larrazabal y J. Castillo. ***"Mimetic Discretizations for Computacional Fluid Dynamics: Two-Dimensional Case"***. V PanAmerican Workshop. Applied & Computacional Mathematics, June 21-24, 2004. Tegucigalpa, Honduras.
3. M. Fagundez, J. Medina, C. Cadenas y G. Larrazabal. ***"Mimetic Discretizations for Computacional Fluid Dynamics: One-Dimensional Case"***. VII International Congresses of Numeric Methods in Engineering and Applied Sciences, CIMENIC´S 2004. April 28-30, 2004, San Cristóbal, Táchira. Venezuela.
4. Juan Medina, Miguel Fagundez, Carlos Cadenas and Germán Larrazabal. "***Mimetic discretization for 2D computational fluid dynamic***". Second Venezuelan Workshop on Mimetic Discretizations, April 13 –15, 2004. Universidad de Carabobo (UC), Valencia. Venezuela.
5. Juan Medina y Miguel Fagundez. "***Dinámica de Fluidos Computacional"***. II Initiation to the Investigation (FACYT). October 30 – 31, 2003. Universidad de Carabobo (UC), Valencia. Venezuela.

F. COURSES, SEMINARS AND OTHERS:

1. ***"Scientific Visualization"***, July 17-21, 2006. III Pan-American Advanced Studies Institute. Universidad Tecnológica de la Mixteca. Oaxaca, México.
2. ***"Numerical Methods for Flow Fluids in Porous Media"***, July 17-21, 2006. III Pan-American Advanced Studies Institute. Universidad Tecnológica de la Mixteca. Oaxaca, México.
3. ***Participant of the VIII International Congresses of Numeric Methods in Engineering and Applied Sciences, CIMENIC´S,*** March 20 – 24, 2006, Isla de Margarita, Venezuela.
4. ***Participant of the II Mathematics Days of FACYT.*** June, 2005, Universidad de Carabobo (UC), Valencia, Venezuela.

5. ***Visitor of the Department of Mathematical and Computer Science.*** College of Sciences, San Diego State University, California. USA. August 26 – September 09, 2004**.**
6. ***"Scientific Visualization and Communication"***, June 14-25, 2004. II Pan-American Advanced Studies Institute. Tegucigalpa. Honduras.
7. ***"Algorithms for Nonlinear Optimization"***, June 14-25, 2004. II Pan-American Advanced Studies Institute. Tegucigalpa. Honduras.
8. ***"A Introduction to Engineering Scientific Computing"***, June 14-25, 2004. II Pan-American Advanced Studies Institute. Tegucigalpa. Honduras.
9. ***"Applications of Parallel Computers"***, June 14-25, 2004. II Pan-American Advanced Studies Institute. Tegucigalpa. Honduras.
10. ***"V Pan-American Workshop in Applied and Computational Mathematics",*** June 21-25, 2004. Tegucigalpa. Honduras.
11. ***"Second Venezuelan Workshop on Mimetic Discretizations",*** April 12 –15, 2004. Universidad de Carabobo (UC), Valencia. Venezuela.
12. ***"II Jornadas de Iniciación a la Investigación de estudiantes de FACYT"***. Valencia. October 30 – 31, 2003. Universidad de Carabobo, Venezuela.
13. ***"Linux Opertaive System (Basic Level)".*** 24 hours. June, 2002. Sciences and Technology Faculty. Universidad de Carabobo, Venezuela.
14. ***"Scientific Visualization"***. 08 hours. December 03-04, 2001. Universidad de Carabobo, Venezuela.
15. ***"Specialist Installers of Nets II".*** 90 hours. February – June, 2001. Instituto de Capacitación Técnica Key´s. Valencia. Venezuela.
16. ***"Basic Oracle"***. 24 hours. November, 2000. Computación Lógica. Valencia. Venezuela.

G. OTHERS RESEARCHES:

1. ***"Mimetic Discretizations for Computacional Fluid Dynamics: Two-Dimensional Case"***.(In Process)
2. ***"Numeric Discretizations for Flow in Porous Media: A Mimetic Approach"***.(In Process)

Interest: Investigation in the area of the Numerical Computation and Applied Research. I am a Numeric Developer and of Programming to solve engineering problems (mainly Computational Fluids Dynamics), and to implement in an efficient way the code source of the numeric application. I'm using so many Methods in Classic Finite Differences as Mimetic Finite Differences. Level advanced in C/C++, Half Level in Java and Fortran 77/90. Implementations so much in Windows as Linux in their different distributions.