
Curriculum Vitae

Amado Gonzalez

Access Grid Director
Engineering Webmaster, 3D Animator, Adjunct Faculty

Graphic Simulation Laboratory

Engineering Access Grid Laboratory

Engineering Information Center

College of Engineering and Computing

Florida International University

10555 West Flagler Street, Room EAS 2810

Miami , FL, 33174

305.348.6486

Amado.Gonzalez@fiu.edu

<http://gsl.eng.fiu.edu/Amado>

Academic Degrees

- 2003 Florida International University, Miami, FL
Graduate Courses in Engineering
- 2000 National Institute for Telecommunications Education
Microsoft Certification
- 1999 Florida International University, Miami, FL
BFA emphasis in Computer Animation, minor in Philosophy
- 1998 Ringling School of Art and Design, Sarasota, FL
Computer Animation
- 1994 Miami Dade Community College, Miami, FL
Associates Degree in Art and Art Education

Fields of Interest

Access Grid, Computational Science, Scientific Visualization,
Cluster Computing, High Performance Computing, Virtual Reality,
Augmented Reality, Product Design, Rapid Prototyping, Outreach,
Teaching

Professional Experience

- 09/03 – Florida International University
The Engineering Center
Director: Graphic Simulation Laboratory,
Access Grid Director
Computer Services Controller, Adjunct Faculty
3D Animator and Webmaster
- 09/00 – 09/03 Florida International University
Engineering and Applied Sciences
Director : Graphic Simulation Laboratory
Sr. Program Analyst, Adjunct Faculty
Electrical and Computer Engineering Department,
Computer Science Department,
School of Architecture.
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- 03/99 – 09/00 Florida International University
Engineering and Applied Science
3D Animator and Webmaster
- 08/98 – 03/99 American Gift Corporation
Digital Photographer and Designer
- 03/92 – 08/96 Expert Software / Activision
Software Interface Developer (GUI)
- 01/89 – 12/93 Post, Buckley, Schuh, and Jernigan
Accounting and Graphic Design Department

Teaching Experience

At Florida International University

UNDERGRADUATE LEVEL

EEL 4930 Introduction to WebDesign and Development
Macromedia Education Training Network

CGS 3990 Designing Web Pages

CGS 3993 Webdesign and Development

ARC 4990 Virtual Reality Environments in Architecture

ARC 4999 3D Modeling for Architecture

US FIRST: 3D Modeling of Robots for Competition
(Dual enrollment High school students)

GRADUATE LEVEL

EEL 5935 WebDesign and Development

ARC 5990 3D Modeling for Architecture

ARC 5992 Virtual Reality Environments in Architecture

Curriculum Innovation

Under the Mentorship of Dr. Armando Barreto, FIU Electrical and Computer Engineering; Introduced the new course "Introduction to Web Design and Development" (Offered initially as EEL-4930: Special Topics In Electrical Engineering and EEL 5935: Advanced Special Topics in Electrical Engineering) In the Fall this course became CGS – 3990: Designing Webpages

Specific Access Grid Experience

A. University of Illinois – Urbana Champaign

WebCT courses taken: 2002 - 2003

1. Access Grid Tutorials

- a. Instructor: AG Training Project

2. Display Wall-in-a-Box

- a. Instructor: NCSA Visualization Team

3. Parallel Computing Explained

- a. Instructor: NCSA Consultants

4. Introduction to Visualization

- a. Instructor: NCSA Scientific Visualization Group

B. National Center for Supercomputing Application

National Computational Science Alliance

1. Minority Serving Institution High Performance Working Group Member

- a. Director: Stephenie McLean
- b. ACCESS Center, Washington DC.
- c. Alliance Center for Collaboration Education Science and Software

2. MSI-HPC Regional Cluster Computing Workshop Program 2002

- a. University of Illinois – Urbana Champaign
 - b. Sponsors: NSF, AN-MSI, EOT-PACI, San Diego Supercomputer Center, NCSA, NCSI
 - c. MSIHPC Working Group Meeting Baltimore, MD November 2002
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3. Engaging Minority Serving Institutions in Cyberinfrastructure ...

- a. *A white paper prepared for Dr. Peter Freeman, Assistant Director of CISE, by the Minority Serving Institution High Performance Computing Working Group3, May 27, 2003.*

4. Alliance All-Hands Meeting

- b. Urbana Champaign 2002

C. Argonne National Laboratory – University of Chicago

Advanced Photon Source

1. Access Grid Retreat 2003

D. National Computational Science Institute

SHODOR Education Foundation

1. SuperComputing Conference 2002 Education Program

- a. ID: 716723 Technical Program

2. Appalachian State University - First Look Workshop

- a. Instructor: Dr. Bob Panoff, Holly Hirst, Dan Warner
- b. Computational Science
- c. Stella and Agent Sheets Modeling

3. Florida State University – Second Look Workshop

- a. Instructor: Dr. Bob Panoff
- b. More in-depth modeling and Simulation

4. Universidad del Sagrado Corazon

- a. Instructor: Dr. Bob Panoff
- b. Assisting Instructors: Amado Gonzalez, Alson Been

E. University of California at Irvine

Humanities Research Institute

1. Humanities and Social Science in Technology All-Hands Meeting

- a. Innovation
 - b. Collaboration
 - c. Animation
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- d. Transformation
 - e. Conservation
 - f. Preservation

2. MSIHPC Working Group Meeting

F. Supercomputing Conference 2003 - Phoenix Arizona

Education Program and Technical sessions
Team Assembled and Grant Announcement

Team Assembled by **Amado Gonzalez** for
SC2003 Education Grant

- a. Amado Gonzalez – FIU Engineering – Graphic Simulation Laboratory
- b. Kuang-Hsi Wu – Advanced Material Engineering Institute
- c. Sahkrat Khizroev – ECE – NanoTechnology Laboratory
- d. George Sheppard – FIU Psychology – Behavioral Science
- e. Eric Crumpler – BMEI – Tissue Engineering Laboratory
- f. Stephanie Strange – Assistant Director for Undergraduate Recruiting and Retention.

Sponsors include: SC 2003 Conference, IEEE, ACM, and NSF

G MSI-HPC Working Group Partnering Institutions

Historically Black Colleges and Universities:

1. Bethune-Cookman College
2. Hampton University
3. Jackson State University
4. Prairie View A&M University
5. Spelman College
6. Winston-Salem State University

Hispanic Serving Institutions:

1. Our Lady of the Lake University
 2. **Florida International University**
 3. University of Texas-El Paso
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Tribal Colleges and Universities:

1. D-Q University
2. Oglala Lakota College
3. Sinte Gleska University

H. GGF9 - The Ninth Global Grid Forum

05-08 October, 2003
Chicago, IL, USA

Societies and Consortiums

ACM – Association for Computing Machinery
Siggraph South Florida Chapter

IGDA – International Game Developers Association
South Florida Chapter

MSI-Network – Director: Stephenie McLean TACC
Minority Serving Institutions Network
High Performance Computing Consortium

HASTAC
Humanities, Arts, Science, Technology, Advanced Collaboratory
Director: Allison Clark NCSA

Macromedia Education Training Network
Webdesign and Development Instructor

Certifications and Awards

11/18 FIU Presidential Excellence Award

11/18 MSIHPC Leadership Award in High Performance
Computing from EOT-PACI/AN-MSI

11/21 SC2003 Igniting Innovation – SC Global Satellite
2003 Site appreciation for FIU participation

01/16 Appreciation for support, instruction, and assistance
2004 National Computational Science Institute
Universidad Del Sagrado Corazon

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- 08/26 Access Grid Node Awarded
2003 The National Science Foundation EOT – PACI
Program Director: Stephenie McLean
- 08/03 2003 Workshop on Computational Science in
Undergraduate Education.
Florida State University, Tallahassee Florida
- 10/16 11th International Conference on Computer Communications
and Networks.
Telecommunications and Information Technology Institute
Conference Chair: Niki Pissinou
- 11/08 Diversity Training Certificate
A Winning Balance: Workplace Diversity
Florida International University
- 2002 EOT-PACI/AN-MSI High Performance Computer Cluster
Workshop: Regional Cluster Computing Workshop Program
- 06/02 2002 Workshop on Computational Science in
Undergraduate Education:
Appalachian State University in Boone, North Carolina
National Computational Science Institute
- 07/16 Certificate of Appreciation
Proyecto ACCESS / Miami PREP Program
Director: Dr. Gustavo Roig
- 03/26 The Supervisory Skills Training Program
Office of Human Resources
Department of Organizational Development and Training
Florida International University
- 04/28 Certificate of Appreciation
Graduate Student Association
GSA Design Competition Judge
Florida International University
- 01/25 Judge for Future City Competition
Institute for Electrical and Electronics Engineers
Florida Region
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- 11/01 Preventing Sexual Harassment Training Certificate
Equal Opportunity Programs
Florida International University
- 07/19 3D Studio MAX Major Concepts Training
Discreet: Mindgel
Nickelodean Studios, Universal, Florida
- 08/18 3D Studio MAX Fundamentals II
Discreet: Mindgel
Nickelodean Studios, Universal, Florida
- 05/02 Certificate of Completion
Fundamentals of Pro/Engineer
Manufacturing Research Center
Florida International University
- 02/10 2nd Place Award in Mathematics
Florida Georgia Louis Stokes Alliance for Minority
Participation: 10th Annual Career Expo
University of South Florida, Tampa
- 03/09 Flash Scripting Certification
JHL Technologies Authorized Training Program
- 04/04 Office of Naval Research
Educational Innovations at FIU
Grant Number: N00014-99-1-0952
Pi- Dr. Malek Adjouadi
New Experimental Course on Web Development and Design
US FIRST Robotics Team
- 06/01 US FIRST Robotics Competition
Ramtech Robotics
Animation Instructor: Amado Gonzalez

Publications

**“Enhancing Sound Spatialization by Anthropometrically
Motivated Spectral Modification”**
Navarun Gupta, Armando Barreto, Amado Gonzalez, Carlos
Ordonez, and Miguel Alonso
MSEE, Florida International University
November, 2002

“The Access Grid and the Latin American and Caribbean Engineering Institutions”

Amado Gonzalez, Stephenie Mclean, Alson Been, Sheldon Silvera
Florida International University, University of Illinois NCSA, Bethune
Cookman College

*Second LACCEI International Latin American and Caribbean Conference
for Engineering and Technology (LACCEI'2004) “Challenges and
Opportunities for Engineering Education, Research and Development”
2-4 June 2004, Miami, Florida, USA*

*The Graphic Simulation Laboratory
(GSL) at Florida International University*

Founded in 2000 by Amado Gonzalez, the FIU Graphic Simulation Laboratory serves the purpose of conducting research in the diverse aspects of Scientific Visualization and Virtual Reality for the Engineering Center at FIU and for external sponsoring agencies, And providing advanced undergraduate and graduate students with an environment in which they can gain exposure and practice in the areas of Scientific Visualization, Virtual Reality, and Computational Science research. Through collaboration with the FIU Engineering Information Center, GSL members have access to an array of specialized equipment and support.

Websites

List of URLs for entire sites that I have designed and maintain.

<http://www.eng.fiu.edu>

The Engineering Center
Florida International University

<http://www.bme.fiu.edu>

Biomedical Engineering
Florida International University

<http://www.eng.fiu.edu/ece>

Electrical and Computer Engineering
Florida International University

<http://www.eng.fiu.edu/cm>

Construction Management
Florida International University

<http://www.eng.fiu.edu/mme>

Mechanical and Materials Engineering
Florida International University

<http://www.eng.fiu.edu/eic>

Engineering Information Center
Florida International University

<http://www.eng.fiu.edu/gsl>

Graphic Simulation Laboratory
Florida International University

<http://www.eng.fiu.edu/global>

Corporate and Global Programs
Florida International University

<http://www.fiu.edu/~psychser>

Counseling and Psychological Service Center
Florida International University

<http://www.fiu.edu/~psychser/PASS>

Personal Academic Stairway
Florida International University

<http://www.eng.fiu.edu/Amado/3darch>

3D Modeling for Architecture – Architecture – ARC 4999 : ARC 5990
Florida International University

<http://www.eng.fiu.edu/webdesign/CGS3990>

WebDesign and Development – Computer Science – CGS 3990 : CGS 3993
Florida International University

<http://www.eng.fiu.edu/web4930/Amado>

WebDesign and Development – Engineering – EEL 4930 : EEL 5935
Florida International University

<http://www.eng.fiu.edu/Amado/VR>

Virtual Environments – ARC 4990 : ARC 5992

<http://www.eng.fiu.edu/teleMAESTRO>

TeleMAESTRO NASA Television Series k-12 (Spanish)
NASA – Kennedy Space Center

<http://www.eng.fiu.edu/Amado/MSIC>

Minority Serving Institution –
URL will be changing to <http://www.msihpc.org>
National Center for SuperComputing Applications
University of Illinois Urbana Champaign

<http://www.eng.fiu.edu/Amado>

Cluster Computing, Access Grid, Computational Sciences
Florida International University

<http://www.eng.fiu.edu/AMERI>

Advanced Materials Engineering Research Institute
Florida International University

<http://www.eng.fiu.edu/CVEC>

CardioVascular Engineering Center
Florida International University

<http://www.eng.fiu.edu/CDE>

Center for Diversity in Engineering
Florida International University

<http://www.eng.fiu.edu/MRC>

Manufacturing Research Center
Florida International University

<http://ids2000.hcet.fiu.edu/ids2000/index.htm>

The Fourth US Department of Energy
International Decommissioning Symposium
Hemispheric Center for Environment Technology
Florida International University

<http://www.solar.fiu.edu>

Department of Energy – Solar Decathlon 2005
National Renewable Energy Laboratory

<http://www.LACCEI.org>

Latin American and Caribbean Consortium of Engineering
Institutions
Non-profit Virtual Organization (VO)

<http://www.WHCF.org>

Wallace H Coulter Foundation

High Performance Computing

Instrumental in obtaining 96 AMD Opteron processor Alienware machines for 48 node Computational Cluster located in the Department of Mechanical and Materials Engineering at the MAIDROC (Multidisciplinary Analysis, Inverse Design, Robust Optimization and Control Laboratory) at Florida International University. Department Chair: Dr George Dulikravich
<http://maidroc.fiu.edu>

Assistant Instructor for Department of Defense PET program High Performance Computing Summer Institute.

Lecturer for Joint Educational Facilities (JEF) in Washington DC, ACCESS DC, National Center for Supercomputing Applications University of Illinois Urbana Champaign

Tutorial Presenter for the Education Program at the SuperComputing Conference 2003
National Computational Science Institute
National Center for Supercomputing Applications.
