U.S. DEPARTMENT OF

# ENERGY

## DOE-FIU Science & Technology Workforce Development Program


FLORIDA INTERNATIONAL UNIVERSITY

## DOE FELLOWS

CANDIDATES FOR EMPLOYMENT

# DOE-FIU Science & Technology Workforce Development Program


## *Message from the Director*

**Potential Employers:**

I would encourage you to browse our website at http://arc.fiu.edu/intern/. You will be amazed at the type of work these students (DOE Fellows) are doing. If you are interested in recruiting well-rounded, smart, and hard working students, you are in the right place. Our DOE Fellows are being specifically trained and mentored in DOE's Office of Environmental Management technical areas of need. All of our DOE Fellows are engaged in soil/groundwater contamination research, deactivation and decommissioning (D&D) projects, and waste processing research. Their applied research has won awards at national and international conferences such as the Waste Management Symposia. Their practical knowledge and training of EM environmental challenges are unique. We take pride that our DOE Fellows are not only technically sound but well-rounded. Their presentation skills and project management knowledge set our DOE Fellows apart from the rest of the college students across the US. Once hired, our DOE Fellows are ready to hit the ground running and will be able to immediately contribute to your organization without extensive and costly training.

*"In the end it's the support the younger generation gets from us more "mature" humans that will not only make a difference in their lives but also in the world we all live in."*

Sincerely,

Leonel E. Lagos, Ph.D., PMP®
Program Director

## PROGRAM DESCRIPTION

The DOE-FIU Science and Technology Workforce Development Program is an innovative collaboration between the US Department of Energy's Office of Environmental Management (DOE-EM) and Florida International University's Applied Research Center, designed to create a "pipeline" of minority engineers specifically trained and mentored in technical areas of need. The program was designed to help address future workforce needs by partnering with academic, government and DOE contractor organizations to mentor future minority scientists and engineers in the research, development, and deployment of new technologies addressing environmental cleanup challenges.

## VISION

Build upon FIU's long research relationship with the US Department of Energy's Office of Environmental Management (DOE-EM) to create a "pipeline" of minority, STEM FIU students in an effort to fill a gap due to an aging workforce at DOE-EM.

# DOE-FIU Science & Technology Workforce Development Program

# INTERNSHIPS



ORNL

DOE-HQ

Idaho


PNNL


Nuvision Engineering Mooresville, NC


Savannah River

Columbia Energy Richland, WA

# Contact Information

Leonel E. Lagos, Ph.D., PMP®
Program Director

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DOE-FIU Science & Technology Workforce Development Program

2010

# Candidate BIOGRAPHIES

# Serkan Akar

## Summary

DOE Fellow Class of 2007
Master's Degree in Biomedical Engineering Graduated in April 2010
Bachelor's in Science in Electrical Engineering Graduated in 2008

### Thesis Title

"*Developing a Biosensor to Detect/Quantify Phosphate Species in Soil and Groundwater Sediments at Uranium Contaminated Hanford Sites*"

### Experience in DOE Related Projects

- Biosensor design and development for uranium stabilization via phosphate injection at the Hanford site
- Automated remote control of the pre-treatment plant mock-up model for the waste treatment plant (WTP) at Hanford
- Development of SLIM (Solid Liquid Interface Monitoring) technology for Hanford high-level waste tanks

### Presentations

- Waste Management 2009 – Student Poster "*Automated Operation Control via PLC for PEP*"
- Waste Management 2010 – Professional Poster "*Developing a Biosensor for Detection of Phosphate Species in Uranium Contaminated Ground Water and Wastewater Sediments by Employing Advanced Biotechnological Methods*"

### Internships

- Summer 2010 – DOE-HQ, Office of Environmental Management (EM-41) Management Systems & Analysis (Forrestal). Will work under the supervision of Mr. Tim Harms.
- Summer 2009 – Oak Ridge National Lab. Worked under the supervision of Dr. T. G. Thundat
- Summer 2008 – Pacific Northwest National Lab. Worked under the supervision of Mr. Jake Tucker and Dr. Gary Josephson

### Awards/Recognitions

- 2008 DOE Fellows Poster Exhibition/Competition 3rd place winner

### Contact information:

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sakar@fiu.edu

**Duriem Calderin**

# Summary

DOE Fellow Class of 2008
Master's Degree in Biomedical Engineering Expected Summer 2010
Bachelor of Science in Nuclear Engineering 2006

## Thesis Title

*"Modeling of Loose Contamination Scenarios to Predict the Efficiency of Loose Contamination Removal"*

## Experience in DOE Related Projects

- Removal of Radioactive Contaminants on Selected Surfaces: "Evaluation of the SIMWyPES technology."

## Presentations

- Presented Student Poster *"Wiped Film Evaporator Pilot Scale Experimental Design to reduce the volume of HLW and LLW at Hanford site tanks." In:*
  - Waste Management 2010
  - Engineering Center Student Poster Presentation 2009
  - Florida International University, Ronald E. McNair post baccalaureate program 2009

## Internship

- Summer 2009 –Columbia Energy & Environmental Services Inc. Worked under the supervision of Mr. Robert A. Wilson in the development of a statistical design to optimize the use of the Wiped Film Evaporator in reducing the volume of waste at Hanford site tanks.

## Awards/Recognitions

- 2009 Award the Ronald E. McNair Post Baccalaureate Achievement Program , Florida International University
- 2009 Student member of the Health Physics Society.

## Contact information:

(786) 291 3454
dcald005@fiu.edu

# Ramon A. Colon

## Summary

DOE Fellow Class of 2007
Bachelor's in Mechanical Engineer Graduated in April 2010

### Experience in DOE Related Projects

- Development of SLIM (Solid Liquid Interface Monitoring) for Hanford high-level waste tanks
- Testing of puncture-resistant material for protection of beta scintillator detectors used at the Hanford Site
- Support of SIMWyPES technology demonstration at FIU-ARC
- Development of Knowledge Management Information Tool System (KM-IT)

### Presentations

- Waste Management 2010 – Student Poster "*Compendium of Technology Experts and University / Industry Research Programs*"
- Waste Management 2009 – Student Poster "*Testing of Puncture-Resistant Material for Protection of Beta Scintillator Detectors used at the Hanford Site*"
- Waste Management 2008 – Professional Oral Presentation "*Performance Analysis of the SensorNet's Southeastern Transportation Corridor Pilot Viewer*"

### Internships

- Summer 2010 – DOE-HQ, Office of Environmental Management (EM-44) D&D and Facility Engineering (Cloverleaf). Will work under the supervision of Mr. Andy Szilagyi
- Summer 2009 – Office of D&D and Facility Engineering / DOE-HQ (Cloverleaf). Worked under the supervision of Mr. Andy Szilagyi
- Summer 2007 –Oak Ridge National Lab's Computational Science and Engineering Division. Worked under the supervision of Mr. David Hill

### Contact information:

(305) 962-1168
rcolo001@fiu.edu

# Henry Diaz

## Summary

DOE Fellow Class of 2007
Bachelor's in Computer Engineer Graduating in Fall 2010

### Experience in DOE Related Projects

- Development of SLIM (Solid Liquid Interface Monitoring) for collecting topographical data of the high-level waste tanks in Hanford
- Development of ITSM (In Tank Solids Monitor) to collect physical data on the high-level waste tanks in Hanford

### Presentations

- Waste Management 2010 – Student Poster "*In Tank Solids Monitor*"

### Internship

- Summer 2008 – Oak Ridge National Lab's Computational Science and Engineering Division. Worked under the supervision of Mr. Glenn O. Allgood

### Contact information:

(786) 709 3734
Henry.Diaz@fiu.edu

# Edgard Espinosa

## Summary

DOE Fellow Class of 2007
Master's Degree in Mechanical Engineering Expected July 2010
Bachelor's in Mechanical Engineering Graduated in 2008

### Thesis Title

"*Design Optimization of Submerged Jets to Enhance Fluid Mixing for Enhanced Chemical Cleaning Operations in High Level Waste Tanks at Savannah River Site*"

### Experience in DOE Related Projects

- Demonstration of Power Fluidic Mixing technology to enhance chemical cleaning operations in high level waste tanks – computational fluid dynamics modeling and development
- D&D Toolbox Project: Technology demonstration of fixatives applied to hot cell facilities via remote sprayer platform
- Chemical process alternatives for radioactive waste: unplugging of high level waste transfer pipeline

### Presentations

- Waste Management 2010 – Student Poster "*Computational Analysis of Power Fluidic Mixing Technology for Enhanced Chemical Cleaning Operations in High Level Waste Tanks at Savannah River Site*"

### Internships

- Summer 2010 – DOE-HQ, Office of Environmental Management (EM-33) Nuclear Materials Disposition (Germantown). Will work under the supervision of Mr. Edgardo Deleon
- Summer 2009 – NuVision Engineering Inc., Mooresville, NC. Worked under the supervision of Mr. Ethan King (Project Manager and PMP®)

### Contact information:

(305) 502-9521
eespi002@fiu.edu

# Alexander Henao

## Summary

DOE Fellow Class of 2007
Bachelor's in Science (Chemistry) Graduated in April 2010

### Experience in DOE Related Projects

- Assisted and performed analytical experimentation in the deployment of engineered solutions for environmental problems at the Hanford site.
- Assisted and performed analytical experimentation in the mitigation of mercury at the Y-12 site in Oak Ridge.
- Collaborated in data mining exercises for the development of the D&D KM-IT and GET websites.

### Presentations

- Waste Management 2009 – Student Poster *"Caustic Dissolution of Chromium in Underground Storage Tanks at the Hanford Site"*
- Waste Management 2008 – Student Poster "*Development of Web-Based D&D Hotline*"
- FIU Chemistry Department – "*Sodium Analysis: Ion Chromatography Implementation*"
- FIU Applied Research Center – "*Investigation of Techniques for Enhanced Retrieval of Salt Cake from High Level Waste*"

### Internships

- Summer 2010 – DOE-HQ, Office of Environmental Management (EM-43) Disposal Operations (Germantown). Will work under the supervision of Christine Gelles.
- Summer 2009 – Idaho National Laboratory. Worked under the supervision of Mr. Rick Demmer
- Summer 2008 – Pacific Northwest National Laboratory. Worked under the supervision of Dr. Renne Russell
- Summer 2007 – Hanford Nuclear Test Site. Worked under the supervision of Mr. Larry Waggoner (Hanford ALARA Center)

### Awards/Recognitions

- 2009 DOE Fellows Poster Exhibition / Competition – First Place

### Contact information:

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ahena002@fiu.edu

# Melina Idarraga

# *Summary*

DOE Fellow Class of 2008
Master's Degree in Environmental Engineering Expected June 2010
Bachelor's in Civil Engineering Graduated in 2008

## Thesis Title

*"Effects of pH, Temperature and Aqueous Bicarbonate in the Dissolution Rate of Autunite in Hanford Site's Soil"*

## Experience in DOE Related Projects

- Dissolution of phosphate minerals in the uranium contaminated subsurface soil at the Hanford site

## Presentations

- Waste Management 2009 – attendee
- Waste Management 2010 – Student Poster "*The Effect of Aqueous Bicarbonate in the Dissolution Rate of Autunite at DOE's Hanford Site Subsurface Soil*"

## Internship

- Summer 2010 - DOE-HQ, Office of Environmental Management (EM-32) Groundwater & Soil Remediation (Germantown). Will work under the supervision of Mr. Kurt Gerdes
- Summer 2009 – Pacific Northwest National Laboratory. Worked under the supervision of Dr. Dawn Wellman (Field Hydrology and Geochemistry Group)

## Awards/Recognitions

- 2009 DOE Fellow of the Year Award, FIU-ARC Award

## Contact information:

(786) 587-6838
midarrag@fiu.edu

# Jose Rivera

## Summary

DOE Fellow Class of 2007
Bachelor's in Civil Engineering Graduated in 2008

### Experience in DOE Related Projects

- Removal of Radioactive Contaminants on Selected Surfaces: "Evaluation of the SIMWyPES technology."
- Dissolution of phosphate minerals in the uranium contaminated subsurface soil at the Hanford site

### Presentations

- Presented Student Poster *"Modeling Mercury Distribution in the Watersheds of the Oak Ridge Reservation"* at:
  - Waste Management Conference 2009, Phoenix, AZ
  - DOE Fellow Student Poster Competition, Engineering Center, FIU, 2009.

### Internship

- Summer 2008 - Idaho National Lab. Worked under the supervision of Chemist Mr. Rick Demmer.

### Awards/Recognitions

- Marlin Engineering - $3,000 scholarship for producing a model for the construction of a park at the Engineering Center of FIU.

### Contact information:

(305) 348-1872
(305) 828-0313
jrive024@fiu.edu

# Jose Vasquez

## Summary

DOE Fellow Class of 2007
Master's Degree in Environmental Engineering Graduated in July 2009
Florida Teacher Certification Valid 2005-2011
Bachelor's in Industrial Engineering Graduated in 1996

### Thesis Title

*"Effects of Temperature and pH on Mercury Volatilization after Chemical Reduction"*

### Experience in DOE Related Projects

Environmental Engineer Research Assistant (DOE Fellowship), November 2007-Present.

- Researching Transport Behavior of Mercury (II) in Oak Ridge Reservation Soil
- Effects of Temperature and pH on Mercury Volatilization after Chemical Reduction
- Effects of pH and Temperature on the Carbonate Promoted Dissolution of Meta-autunite
- Modeling Mercury Reduction from Poplar Creek using Chemical Reduction and Volatilization, Oak Ridge National Lab, TN (Summer internship)
- Design of a Remedial Action Work Plan for the S-3 ponds' groundwater contamination at the Y-12 security complex, Oak Ridge, TN

### Presentations

- Master's Thesis *"Effects of temperature and pH on volatilization of mercury after chemical reduction"*.
- Student Poster *"Mercury removal from East Fork Poplar Creek using chemical reduction and volatilization."* Presented at Waste Management Conference 2009, Phoenix, AZ.

### Internships

- Spring 2010 – DOE-EM Oak Ridge Operations.
- Summer 2008 – Oak Ridge National Lab

### Contact information:

(305) 401-8485
jvasquez@fiu.edu

# Leydi Velez

## Summary

DOE Fellow Class of 2007
Master's Degree in Engineering Management Expected December 2010
Bachelor's in Industrial Engineering Graduated in 2009

### Thesis Title

*"Decision Support Tool for Prioritization of Surveillance and Maintenance Investment Across DOE Excess Facilities"*

### Experience in DOE Related Projects

- D&D Knowledge Management Information Tool (KM-IT)
- Data mining of D&D prioritization needs (large area decontamination technologies, state of the art in PPE, non-intrusive tools for characterization of utilities in concrete and soil, D&D Focus Area legacy information)
- Decision Tool for S&M Investment (this decision tool was created by Ms. Velez and has been used and implemented at Oak Ridge)

### Presentations

- Waste Management 2010 – Student Poster *"The Search for Knowledge-Meeting DOE-EM's High Priority D&D Needs"*
- Waste Management 2009 – Professional Poster *"Decision Support Tool for Prioritization of Surveillance and Maintenance Investment Across DOE Excess Facilities"*

### Internships

- Summer 2010 – DOE-HQ, Office of Environmental Management (EM-20) Safety and Security Programs. Will work under the supervision of Mr. James Hutton, Chief Nuclear Advisor
- Summer 2008 –Oak Ridge National Lab's Nuclear Operations Directorate. Worked under the supervision of Ms. Paula Kirk and Mr. Tom Conley

### Awards/Recognitions

- 2009 DOE Fellow of the Year Award, FIU-ARC Award
- Best Professional Poster presentation, Waste Management 2009


### Contact information:

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lvelez@fiu.edu

DOE-FIU Science & Technology Workforce Development Program

2010

# Candidate RESUMES

# Serkan Akar

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(754) 245-5644 ● sakar@fiu.edu


## OBJECTIVE

I aim to obtain the position of an engineer in a respectable firm where I can fully utilize my talents, knowledge, expertise, experience, proficiency and excellent communication and inter-personal skills for the benefit of the firm.

## EDUCATION

### Master of Science in Biomedical Engineering

GPA: 3.37
Florida International University, Miami, FL
Aug 2008 - Present

### Bachelor of Science in Electrical Engineering with a Minor in Biomedical Engineering

GPA: 3.21
Florida International University, Miami, FL
Aug 2003 - May 2008

## EXPERIENCE

### Research Assistant, DOE Fellow

Nov 2007 - Present, Applied Research Center, Miami, FL

- Biosensor Design and Development
- Nuclear Material Stabilization
- Designed an Automated Nuclear Material Storing and Monitoring

### Technical Team Supervisor

May 2003 - Nov 2007, Integrated Medical Systems, Cooper City, FL

- Led a Technical Group
- Responsible for Surgical Instrument Repair and Maintenance

### Technical Team Supervisor

Mar 2001 - May 2003, Innovative Ideas and Solution, Oakland Park, FL

- Managed Nationwide Work Orders
- Acted as Warehouse Manager

## INTERNSHIPS

Summer 2010, DOE-HQ, Office of Environmental Management (EM-41) Management Systems & Analysis (Forrestal). Will work under the supervision of Mr. Tim Harms.

Summer 2009, Oak Ridge National Lab. Worked under the supervision of Dr. T. G. Thundat.

Summer 2008, Pacific Northwest National Lab. Worked under the supervision of Mr. Jake Tucker and Dr. Gary Josephson.

## SKILLS

Computer Skills: Layout Editor (Chip design), P-spice (Electrical Circuit Design), Code-Sys PLC Programming Software, Lab-VIEW (NI) Programming Software, Mat Lab, Microsoft Office, C+ Programming, AutoCAD

## LANGUAGES

English, Turkish, Basic Arabic and Basic Spanish

## CERTIFICATIONS

Clean Room Training (CR100), Radiation Safety Hands On, Fire Safety and Personal Protection, Laboratory Safety and Equipment, Laser Safety, Hazard Communication, Hazwoper Awareness

# Serkan Akar

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## PROFESSIONAL AFFILIATIONS

Member of International Electronics and Electrical Engineers (IEEE)

## PUBLICATIONS

### Conference Proceedings

Akar, S., Tek, V., Bange, A., Lagos, L., Thundat, T. G., Developing a Biosensor for Detection of Phosphate Species in Uranium Contaminated Ground Water and Wastewater Sediments by Employing Advanced Biotechnological Methods. Accepted Conference Paper and Poster Presentation, WM2010 Conference March 7 – 11, 2010, Phoenix Convention Center, USA. *www.wmsym.org*

### Conference Presentations

Akar, S., Tucker, J., Lagos, L., Josephson, G., Automated Operation Control via Programmable Logic Controllers (PLC) for Pre-Engineering Platform (PEP) Prototype model of Waste Treatment Plant (WTP) at Hanford, WA. WM2010 Conference March 7 – 11, 2009, Phoenix Convention Center, USA. *www.wmsym.org*

# Duriem Calderin

19511 SW 117 Ave, Miami, FL 33177
(786) 291-3454 ● dcald005@fiu.edu


## OBJECTIVE

Seeking challenging career opportunities that demand the utilization of advanced skills in engineering and nuclear technologies.

## EDUCATION

### Master of Science Biomedical Engineering

GPA: 3.53
Florida International University, Miami, FL
Aug 2008 - Present

### Bachelor of Science Nuclear Engineering

GPA: 3.44
Higher Institute of Technology and Applied Sciences, Havana, Cuba
Aug 2001 - Jul 2006

## EXPERIENCE

### Research Assistant, DOE Fellow

Oct 2008 - Present, Applied Research Center, Florida International University

- Conducting research on the use of the Tc-99m isotope to create contaminants of different particle sizes and evaluating this contamination on various surfaces and the decontamination efforts
- Developing a statistical model to support the experimental results
- Conducting research on decontamination techniques involving wipes, surfaces, isotopes and environmental conditions during the decontamination of surfaces

### Research Assistant, Summer Intern

Jun 2009 - Aug 2009, Columbia Energy & Environmental Services Inc, Richland WA

- Designed a statistical model able to predict new responses and explain the variability in specific gravity recorded from a previous scale experiment with waste like the one present at the Hanford Site tanks
- Researched the use of a Wiped Film Evaporator as an alternative evaporation capacity to reduce the volume of waste at Hanford Site tanks

### Biomedical Technician

Apr 2008 - Oct 2008, Beckman & Coulter Inc, Miami, FL, Manufacturing Department

- Performed quality control and assurance tasks related to electronic circuits
- Performed evaluation and testing of modules for biomedical equipment: hematology analyzer, blood cell counter, laser equipment, FET (field effect transistors)

### Junior Medical Physicist

Sep 2006 - May 2007, Nuclear Medicine Department, Institute of Cardiology & Cardiovascular Surgery, Havana, Cuba

- Health Physics duties: Inspected standards regulations, supervised radiation exposure limits for personnel, implemented and released decontamination procedures, audited survey of radiation areas
- Installed, tested, calibrated and conducted quality assurance of biomedical and diagnostic imaging equipment
- Computer programming of iterative reconstruction algorithms applied to nuclear medicine's imaging equipment

## AWARDS

- Student member of the Health Physics Society, Fall 2009
- Awarded with the Ronald E. McNair Post Baccalaureate Achievement Program, March 2009
- Awarded with the DOE-FIU Science and Technology Workforce Development Initiative Fellowship, October 2008
- Participant in the International Atomic Energy Agency (IAEA) Project "RLA/9/057-TSA3 IAEA Physical Aspects of the Optimization of Radiological Safety in Radio diagnostic and X Rays Guided Surgery". University of Costa Rica, May 2007
- Recognition for outstanding student research paper "Signals Snow Analysis Using the Wavelet Transform", InSTEC, Havana, Cuba 2006

# Duriem Calderin

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## SKILLS

Programming experience ( Delphi and MatLab), modelling skills in Solid Works and ANSYS. Microsoft Office expertise
Bilingual: Fluent English & Spanish

## PROFESSIONAL AFFILIATIONS

Student member of the Health Physics Society, 2009

# Ramón A. Colón

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## OBJECTIVE

Motivated graduating mechanical engineering student seeking full time employment in the deactivation and decommissioning field. Primary interest is in technology development and testing.

## EDUCATION

### Bachelor of Science in Mechanical Engineering

GPA: 3.08
Florida International University (FIU), Miami, FL
Expected Graduation Date: June 2010

### Robotics Engineering Certificate

### Academic Projects

- Senior Design Project – Remote Controlled Landmine Detector, January 2009 – December 2009
- Robot Design Project – ASME 2009 Student Design Competition, January 2009 – April 2009

## WORK EXPERIENCE

### Research Assistant, DOE Fellow

May 2007 – Present, Applied Research Center, Miami, FL

- Incorporated data from summer 2009 internship into the Knowledge Management Information Tool (KM-IT) System. The KM-IT is a repository of information for the D&D Community.
- Executed experiments related to decontamination & decommissioning (D&D), including the demonstration of innovative technologies (SYMWyPES). Participated in the collection and analysis of data, technology demonstrations, and presentation of results.
- Conducted radiation experiments to determine radiation detector performance when exposed to various cover materials and shrubbery.
- Participated in the design of the Solid-Liquid Interface Monitor system for characterization of solid/liquid interface at Hanford's high level waste tanks.
- Fabricated components of the Solid-Liquid Interface Monitor system at ARC's machine shop.
- Involved in facility management duties including the setup of computer network and maximization of work space for DOE Fellows.

### DOE Fellow Summer Internship

June 2010 – August 2010, Department of Energy's Headquarters, Office of Environmental Management (EM-44), D&D and Facility Engineering, Cloverleaf, MD. Will work under the supervision of Mr. Andy Szilagyi.

### DOE Fellow Summer Internship

June 2009 – August 2009, Department of Energy's Headquarters, Cloverleaf, MD

- 10 week internship in the Office of D&D Facility Engineering.
- Researched and organized a compendium of technology experts sorted by their technologies.
- Gained understanding of how government selects funding recipients by assisting a D&D prioritization workshop.

### DOE Fellow Summer Internship

June 2007 – August 2007, Oak Ridge National Laboratory, Oak Ridge, TN

- 10 week internship in the Computational & Science Engineering Division of ORNL.
- Analyzed a radiation detector system for traveling trucks; SETCP Viewer.
- Identified inconsistencies with the system and provided solutions based on the data collected.
- Stated transportation patterns and charts of efficiency before and after repairs of inconsistencies.

# Ramón A. Colón

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## CONFERENCES

Compendium of Technology Experts & University/Industry Research Programs Applicable to D&D

- Waste Management 2010 Poster Competition – Phoenix, AZ, March 2010

Testing of Puncture-Resistant Material for Protection of Beta Scintillator Detectors

- Waste Management 2009 Poster Competition – Phoenix, AZ, March 2009
- ASME Student Professional Development Conference (SPDC) – Tuscaloosa, AL, April 2009

Performance Analysis of the SensorNet's Southeastern Transportation Corridor Pilot Viewer

- Waste Management 2008 Oral Presentation – Phoenix, AZ, February 2008

## SKILLS

Software: Microsoft Word, Microsoft Excel, Microsoft Power Point, Solid Works
Languages: Fluent in English and Spanish (reading, writing, speaking, & presenting)
Machine Shop: Band-saw machining, Drill-press machining, Milling machining

## AFFILIATIONS

Vice Chair of External Affairs, American Society of Mechanical Engineers (ASME)

- Collaborate with FIU Career Services to design and present workshops for engineering students.
- Improve visibility of the society by organizing intramural sport teams.
- Organize tour of local companies.

Chapter's Founder, American Institute of Aeronautics and Astronautics (AIAA)

- Recruited the founding members.
- Assisted in the organization of an Executive board for the chapter.

# Henry Diaz

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## OBJECTIVE

To gain working experience in the field of Electrical and Computer Engineering including but not restricted to, embedded systems, AI, robotics, genetic algorithms, neural networks, fuzzy logic and simulations.

## EDUCATION

Bachelor of Science in Computer Engineering
GPA: 3.24
Florida International University, Miami, FL, Fall 2010

## CAREER HISTORY

Research Assistant, DOE Fellow
US Department of Energy/Applied Research Center
2007-Present, Miami, FL

- Working on the solid liquid interface monitor (SLIM) which will be used to monitor the volume of waste in 1 million gallon high level nuclear waste tanks at the Hanford site in Washington.
- Gained researching skills.
- Developed good presentation skills through program.

Department of Homeland Security/Oak Ridge National Laboratory
Summer 2008, Oak Ridge, TN

- Building and employment of a GUI for a stochastic simulation as an intern.
- Developed optimization tool to study cargo inspection protocols in airports.
- Assisted in the analysis of a model simulating air cargo flow dynamics, and planning for future development of genetic algorithm based optimization of the system.

## PROJECTS

- Brain Computer Interface, as senior design project.
- Created/Led Technical workshops involving:
    - Magnetic Levitator/Microprocessor Controlled
    - Audio Over Laser Modulation
    - Microcontroller Programming

## SKILLS

- Experienced with Java, C++ and Basic.
- Working experience with SolidWorks (3D CAD), AutoCAD (2D Drafting), Matlab (Numerical Computing), LabVIEW (Virtual Workbench) and Microsoft Office
- Fluent in Spanish (Oral/Written)
- Public speaking
- Research Skills
- Proficient in Oral/Written Communication
- Leadership Skills

## MEMBERSHIPS & AFFILIATIONS

- Former President of Eta Kappa Nu (EKN), Kappa Delta Chapter, Electrical and Computer Engineering Honor Society
- DOE Fellowship (Department of Energy/Florida International University)
- Bright Futures Scholar

# Edgard Espinosa

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Phone: (305) 456-2005 ● Mobile: (305) 502-9521 ● eespi002@fiu.edu

## OBJECTIVE

Seeking a full-time position as an engineer that would allow me to utilize my computational analysis, research and development, and management skills.

## EDUCATION

Master of Science in Mechanical Engineering
GPA: 3.34
Thesis: "Design Optimization of Submerged Jet Nozzle to Enhance Mixing"
Florida International University, Miami, FL
Expected Graduation Date: Dec 2010

Bachelor of Science in Mechanical Engineering
GPA: 3.2
Florida International University, Miami, FL, Dec 2008

## RELATED COURSEWORK / AREAS OF INTEREST

- Finite Element Analysis
- Numerical Analysis
- Fluid Mechanics
- Heat Transfer

## EXPERIENCE

Research Assistant, DOE Fellow
Nov 2007 - Present, Applied Research Center, Florida International University, Miami, FL

- Assisting Senior Research Engineers in development, testing and deployment of new technologies that support environmental cleanup at DOE sites.
- Selected to be one of the 20 DOE fellows from 150 applicants college-wide.

Lab Proctor
Sept 2007 - Dec 2007, Engineering Information Center, Florida International University, Miami, FL

- Facilitated with basic operations and provided customer service to patrons using computer facility by answering calls, supplying needed electronic equipment and providing information related to the center.

Draftsperson
Jun 2001 - Aug 2005, Triangle Fire, Inc., Miami, FL

- Produced AutoCAD drawings for small fire suppression systems distributor.
- Managed projects including but not limited to project "take-offs", customer relations, maintaining and acquiring information related to projects, and securing permits from South Florida municipalities to perform work.

## PROJECTS

Power Fluidic Mixing Technology to Enhance Chemical Cleaning Operations in High Level Waste Tanks (NuVision Engineering, Inc, NVE), May 2009-Present

- Enhance the preparation and cleaning process of high level waste tanks at Savannah River Site (SRS)
    - Learned to operate the Fluent™ Software for applications specific for NVE.
    - Work autonomously to design and execute a plan to generate a computational analytical model.
    - Reported progress on a weekly basis to project team in order to meet a time sensitive goal.

Technology Demonstration of Fixatives Applied to Hot Cell Facilities via Remote Sprayer Platforms (DOE), Jul 2008-Nov 2008

- Cooperated in the mock-up of the test plan used to test the application of fixatives applied to hot cells to reduce the amount of contamination for the purpose of demolition.
    - Analyzed technology's effectiveness to reach objectives via surveillance system.

# Edgard Espinosa

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Phone: (305) 456-2005 ● Mobile: (305) 502-9521 ● eespi002@fiu.edu


- Designed the physical structure for the project using AutoCAD.

Unplugging Pipeline of High Level Waste at DOE Hanford Site (DOE), Jan 2008-Apr 2009

- Tested new technologies that address the issue of plugged pipelines transporting high level waste.
  - Perform wave speed analysis of recorded data gathered while testing technology at various parameters.
  - Manufactured the test plug which emulated plugging material in pipes at DOE sites.
  - Performed shear testing and pressure testing on manufactured plug to test the integrity of the technology.

Power Extraction by the Use of Hydro-Power Turbine (Senior Project Design), Jan 2008-Dec 2008

- Modified the turbine blade design. The performance was quantified by the amount of power that is extracted from ocean currents.
  - Developed and analyzed turbine designs using ANSYS Workbench.
  - Collaborated with EE students and learned the value of communication across disciplines.
  - Team leader for ME students: Scheduled meetings, kept track of meeting minutes and managed important and related files.

## INTERNSHIPS

US DOE Headquarters, Office of Environmental Management (EM-33) Nuclear Materials Disposition, Germantown, MD
Jun 2010 – Aug 2010

NuVision Engineering, Inc., Mooresville, NC
May 2009 – Aug 2009

- Developed a CFD model to adhere to the experimental set-up to validate Power Fluidic for Enhanced Chemical Cleaning process at SRS Tank Farm.
- Tested, analyzed and supported the validation of a flow meter critical to gathering data.

## CONFERENCES

Waste Management 2010 Symposia Student Poster Competition, Phoenix, AZ, Mar 2010

- Computational Analysis of Power Fluidics Mixing Technology to Enhance Chemical Cleaning Operations in High Level Waste Tanks at Savannah River Site

## SKILLS

- Five years of customer service, assessing needs, and resolving conflicts
- Passion for engineering, realizing visions and fulfilling expectations
- Exceptional presentation skills
- FLUENT 6.3 w/ Gambit 2.4
- ANSYS Workbench 10.0, ANSYS CFX 10.0, AutoCAD 2004, Solid Works 2005
- Microsoft Excel 2007,Microsoft PowerPoint 2007, Microsoft Word 2007
- Fluent in English and Spanish

## AFFILIATIONS

- AIAA: American Institute of Aeronautics and Astronautics, Treasurer, 2009-Present
  - Founding E-Board Member
- SHPE: Society of Hispanic of Professional Engineers, Member, 2006-Present
- ASME: American Society of Mechanical Engineers, Member, 2007-Present

# Alexander Henao

15265 SW 143rd Avenue, Miami, FL 33177
(305) 510-3347 ● ahena002@fiu.edu


## OBJECTIVE

Seeking a challenging career as a chemist utilizing my research and management experience.

## EDUCATION

### Bachelor of Arts in Chemistry

Florida International University – Miami, Florida
Expected Graduation Date: August 2010

## WORK EXPERIENCE

### Research Assistant, DOE Fellow

January 2005 – Present, Florida International University – Applied Research Center – Miami, Florida

- Conducted chemical analyses with precision and accuracy using standard operating procedures.
- Assisted in the preparation of common solutions used in experiments.
- Cleaned, maintained, and calibrated equipment and instrumentation.

### Administrative Specialist

March 2002 – December 2004, Florida International University – HCET – Miami, Florida

- Developed and implemented year-end progress reports for the Department of Energy (DOE).
- Budgeted and ordered materials needed to performed experiments.
- Approved and reconciled purchases made with the company procurement card.

## INTERNSHIPS

### DOE-HQ, Office of Environmental Management (EM-43), Disposal Operations, Germantown, MD.

June 2010 – August 2010. Will work under the supervision of Christine Gelles.

### Separation of Metal and Metal Oxides using Ethyl Acetate and Bromine

June 2009- August 2009, Idaho National Laboratory – Idaho Falls, Idaho

- Collaborated, researched and performed experiments in dissolving samples that contained a mixture of metal oxides in an ethyl acetate/bromide solution followed by nitric acid dissolution.

### Development of Oxidative Leaching Processes for Waste Treatment Plants

June 2008 – August 2008, Pacific Northwest National Laboratory – Richland, WA

- Conducted, studied, and performed experiments to determinate the concentration of chromium in caustic solution.

### Development of Web-Based Decommission & Deactivation Hotline System

June 2007 – August 2007, Hanford Nuclear Test Site – Hanford, WA

- Assisted in the development, data mining, and implementation of the Knowledge Management Information Tool.

## CONFERENCES

### Caustic Dissolution of Chromium in Underground Storage Tanks at the Hanford Site

- Waste Management 2009 Poster Competition – Phoenix, Arizona – March 2009

### Development of Web-Based D&D Hotline

- Waste Management 2008 Poster Competition – Phoenix, Arizona – February 2008

## PRESENTATIONS

### Separation of Metal and Metal Oxides using Ethyl Acetate and Bromine

- 2009 DOE Fellows Poster Exhibition/Competition (First Place), Applied Research Center, Florida International University, Miami, Florida – November 2009

# Alexander Henao

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(305) 510-3347 ● ahena002@fiu.edu


## PROFESSIONAL SKILLS

| | |
|---|---|
| Languages: | Fluent in English and Spanish. |
| Computer: | Microsoft Office 2007, ChemSketch, Coreldraw 7. |
| Other: | Great leadership skills, fast learner, adaptable, self-motivated and organized. |

# Melina Idarraga

10301 SW 159th Court, Miami, FL 33196
(786) 587-6838 ● midarrag@fiu.edu


## OBJECTIVE

Seeking permanent employment as an engineer or researcher in the area of environmental/civil engineering.

## EDUCATION

### Masters in Environmental Engineering

GPA: 3.61
Florida International University – Miami, FL
Expected Graduation Date: December 2010

### Bachelor of Science in Civil Engineering

Florida International University – Miami, FL, December 2008

## WORK EXPERIENCE

### Research Assistant, DOE Fellow

November 2008 – Present, Florida International University – Applied Research Center – Miami, FL

- Conducted chemical and radioactive analyses with precision and accuracy using standard operating procedures.
- Assisted in the preparation of common solutions used in experiments.
- Assisted in the write up of bi-monthly and end of the year reports.

## INTERNSHIPS

### DOE-HQ, Office of Environmental Management (EM-32), Groundwater & Soil Remediation, Germantown, MD.

June 2010 – August 2010. Will work under the supervision of Mr. Kurt Gerdes.

### Effects of pH and Temperature on the Carbonate Promoted Dissolution of Meta-Autunite

June 2009- August 2009, Pacific Northwest National Laboratory – Richland, Washington

- Collaborated, researched and performed experiments with the geochemistry and groundwater group, under the supervision of Dr. Dawn Wellman, to quantify the effect of aqueous bicarbonate, temperature and pH in the dissolution of Meta-Autunite minerals in the subsurface soil of the Hanford Site.

## CONFERENCES

### The Effect of Aqueous Bicarbonate in the Dissolution Rate of Autunite at US DOE's Hanford Site

- Waste Management 2010 student poster competition – Phoenix, Arizona, March 2010
- Waste Management 2009 Attendee – Phoenix, Arizona, March 2009

## AFFILIATIONS AND AWARDS

- The National Environmental Engineering Honorary (Tau Chi Alpha), April 2010
- DOE Fellow of the Year Award Runner Up, November 2009
- The American Academy of Environmental Engineers (AAEE)- Student Member, June 2009
- DOE/FIU Science and Technology Workforce Development Program-DOE Fellow, November 2008
- The National Civil Engineering Honor Society (Chi Epsilon)-Member, April 2008
- American Society of Civil Engineers (ASCE)- Student Member, April 2007

## PROFESSIONAL SKILLS

| | |
|---|---|
| Languages: | English and Spanish. |
| Computer: | Microsoft Office 2007, Sigma Plot 11. |
| Laboratory: | Radiation Safety Training and proficient at running Single-Pass Flow-Through apparatus. |
| Other: | Great leadership skills, fast learner, adaptable, self-motivated and organized. |

# Jose Rivera

972 W 79th St, Hialeah, FL 33144
(305) 348-1872 ● jrive024@fiu.edu


## OBJECTIVE

Apply my engineering and environmental expertise in the area of high level liquid waste transport and soil/groundwater research to support DOE operations.

## CORE PROFESSIONAL STRENGTHS

- HLLW Technologies
- Organization & Personnel Leadership
- Client/Vendor Interactions
- Presentations & Public-speaking

## EDUCATION/CERTIFICATION

Bachelor of Science: in Civil Engineering
Florida International University, Miami, FL, December 2008

## PROFESSIONAL EXPERIENCE

### Research Assistant, DOE Fellow

2003 to Present, Applied Research Center-Florida International University, Miami, Fl
(Non-Profit Organization dedicated to research/engineering support for national/state/ local agencies)

- Provide assistance and support for pilot scale studies on environmental technology, under the supervision of Ph.Ds, PEs, PMPs, project managers and principal investigators for a variety of diverse projects. Performed a multitude of job duties and activities including:
    - Running Experiments
    - Materials Comparison and Selection
    - Parts Research and Ordering
    - On-site Field Work
    - Event Coordination
    - Co-worker Training
    - Giving Presentations
    - Project Schedule Adherence

## PROJECT DESCRIPTIONS & SPECIFIC CONTRIBUTIONS

### Transport Behavior of Mercury (II) in ORR Soil

This project is an ongoing effort to treat the problem of mercury contamination in the areas around Y-12 Security Complex at Oak Ridge Reservation.

- Provided assistance in organizing and setting up experiments.
- Assisted on the analysis of soil samples to determine mercury concentration.
- Prepared paper work for the proper disposal of the waste produced.

### Chemical Process Alternatives for Radioactive Waste

The client of this project is the US Department of Energy (US DOE).

- Provided assistance in organizing and setting up experiments.
- Managed time and supervised the work of a team of 7 members.
- Collected data and samples for analysis.

### Transport Behavior of UXO Chemicals in Selected Tropical Soils

UXO or Unexploded Ordnance is an explosive chemical. This project studied its behavior on soil samples of a Hawaiian site. Final report submitted to Environet Inc.

- Provided assistance in organizing and setting up experiments.
- Sample and data collection.
- Ordered parts for technical support.

# Jose Rivera

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Analysis of Bioaccumulation of Perchlorate in Animal Tissue Samples

- Provided assistance in setting up experiments.
- Data and sample collection as well clean up and organization of working area.

## INTERNSHIPS

Pipeline Unplugging Requirements Development
06/2008 - 08/2008, US Department of Energy – Idaho National Lab
Rick Demmer – Mentor (Chemist)

- Worked under the supervision of my mentor to identify the barriers (in terms of meeting DOE site criteria and requirements) that unplugging methods will have to overcome for implementation. Ultimately, the purpose is to identify the best, most effective and compatible method that can then proceed to field-testing. Reviewed the results of technologies tested, including the benefits, advantages and disadvantages of each technology. Requirements for pressure, personnel training, environmental concerns, safety, and compatibility with current systems, operability, reliability, maintainability and cost were developed. Produced a poster and a technical report.

## FELLOWSHIPS

DOE / FIU Science and Technology Workforce Development Initiative, DOE Fellow – Academic Year 2007-2008

## ACOMPLISHMENTS & AWARDS

- Research experience and higher education at the Idaho National Lab
- Attended the WM2009 Symposia at Phoenix Arizona, presented a poster and submitted a paper
- Marlin Engineering $3,000 scholarship for producing a model for the construction of a park at the Engineering Center of FIU

## COMPUTER SKILLS

- MS Office: Word, Excel, PowerPoint
- AutoCAD, Microstation

## LANGUAGE SKILLS

Fluent in English and Spanish

# Jose L. Vasquez

1862 NW South River Dr., Miami, FL 33125
(305) 401-8485 ● jvasquez@fiu.edu


## EDUCATION

### Master of Science in Environmental Engineering
GPA: 3.61out of 4
Master's Thesis: "Effects of Temperature and pH on Mercury Volatilization after Chemical Reduction"
Florida International University, Miami, FL, July 2009

### Professional Preparation Courses in Education, College of Education
Florida International University, Miami, FL, 2003-2004
Florida teacher certification held 2005-2011

### Bachelor of Science in Industrial Engineering
GPA: 7 out of 10
Thesis: "Printing Production Process Improvements: U.C.A. Editores"
Conducted process analysis for a printing production plant to improve efficiency and reduce costs.
Universidad Centro Americana, San Salvador, El Salvador, 1996

## WORK EXPERIENCE

### DOE Fellow Internship
February 2010 – Present, US Department of Energy – Environmental Management (ORO)

Performed a spring internship with DOE-EM Oak Ridge Operations in the areas of project management for environmental remediation projects, compliance with environmental laws, and peer review of scientific research programs. The main objective of this internship was to learn and apply different aspects and phases of managing federal projects. Also, I am involved in two main environmental remediation projects for mercury, uranium, and other contaminants at the Y-12 National Security Complex in Oak Ridge, TN. I am currently the assistant project manager for the characterization of soils at the Old Salvage Yard at Y-12. I am writing and designing a remedial action work plan for groundwater contamination with the objective of supporting the decision making process by managers at the Oak Ridge Reservation.

### Research Assistant, DOE Fellow
November 2007 - Present, Applied Research Center (ARC) at Florida International University, Miami, FL.

My activities at ARC have included research, laboratory experiments, computer modeling, writing technical reports and technical support to senior scientists. I have supported the following environmental remediation projects:

- Researching Transport Behavior of Mercury (II) in Oak Ridge Reservation Soil
- Effects of Temperature and pH on Mercury Volatilization after Chemical Reduction
- Effects of pH and Temperature on the Carbonate Promoted Dissolution of Meta-autunite
- Modeling Mercury Reduction from Poplar Creek using Chemical Reduction and Volatilization, Oak Ridge National Lab, TN (Summer internship)

### High School Math Teacher
August 2004 - May 2008, Miami Beach Senior High, Miami Beach, Florida

- Taught full-time high school students
- Technology cadre member 2005 and Freshman class sponsor 2006

### Substitute Teacher
2003 - 2004, Miami Dade County Public Schools, Miami, Florida

### Project Manager (Social Development Project)
September 1999 - February 2000, PADECOMSM, Perquin, Morazán, El Salvador

- Planned and developed educational and environmental programs
- Managed resources and supervised employees
- Maintained project budget
- Liaisoned with diverse community organizations

# Jose L. Vasquez

1862 NW South River Dr., Miami, FL 33125

(305) 401-8485 ● jvasquez@fiu.edu


Assistant Warehouse Manager

1998 - 1999, Primo S.A., San Salvador, El Salvador

- Supervised 12 staff members
- Coordinated production with subcontractors
- Planned production and inventory

Sales Manager

1997 - 1998, Sabritas de El Salvador (Frito-Lay Corporation), San Salvador, El Salvador.

- Supervised, trained and motivated 10 outside sales representatives
- Expanded sales to include new accounts
- Coordinated sales routes to develop new business
- Maintained regular sales and goal setting reports

Production Supervisor

1994 - 1997, Cajas y Bolsas, San Salvador, El Salvador

- Supervised 20 staff members
- Scheduled maintenance of machines
- Analyzed inventory of materials and tools
- Planned production
- Created reports and goal setting
- Performed production quality control

## SKILLS

- Native Spanish speaker
- Microsoft Excel, Power Point, Project and Word programs
- Strong mathematical and problem solving skills

## SEMINARS AND TRAINING

- Waste Management Conference, Phoenix, AZ (2008 and 2009)
- Radiation, lab and fire safety training at FIU and ORNL (2007-2008)
- Earned Value Management Systems training (March 2010)

## OTHER PROJECTS

FIU-USDA-ARC scholarship in El Salvador, Central America. June-July 2007

- Analyzed and studied a wastewater treatment system using native grass in a military base in El Salvador
- Researched sustainable agriculture in El Salvador

Summer Internship – Oak Ridge National Laboratory – Summer 2008

- Researched mercury volatilization in East Fork Poplar Creek
- Performed laboratory experiments to support research

# Leydi Velez

7857 NW 194 ST, Miami, FL 33015
(305) 710-6239 ● lvelez@fiu.edu


## PROFILE

An enthusiastic, responsible and highly motivated MS Engineering Management student seeking an opportunity to gain experience as an entry level engineer.

- Skilled at learning new concepts quickly, working well under pressure, and communicating ideas clearly and effectively.
- Leadership experience through team projects and church activities.

## EDUCATION

### Master of Science in Engineering Management

GPA: 3.5
Florida International University, Miami, FL, December 2010

### Bachelor of Science in Industrial and Systems Engineering

GPA: 3.6
Florida International University, Miami, FL, 2006-2009

### Associate in Arts

GPA: 3.9
Miami Dade Honors College, Miami, FL, 2004-2006

## AWARDS

- Best Professional Poster, Waste Management Symposia 2009
- Fellow of the Year, Department of Energy/Applied Research Center - FIU, 2009
- Outstanding Graduate Award, Industrial and Systems Engineering, Class of 2009

## PROJECTS

### Senior Design Project, UPS Air Cargo

Fall 2008-Spring 2009. Florida International University

- Developed process flow diagrams and job break down analysis, conducted time studies and constructed baseline for performance levels of current process.
- Performed a workflow and staff level assessment at the imports office utilizing deterministic and simulation techniques to reduce customer waiting time during peak hours.

## EXPERIENCE

### DOE Fellow Internship

Summer 2010, DOE-HQ, Office of Environmental Management (EM-20) Safety and Security Programs.

- Will work under the supervision of Mr. James Hutton, Chief Nuclear Advisor

### Research Assistant, DOE Fellow

Fall 2007 – Present, Applied Research Center, Miami, FL

- Conducted research studies and data mining activities to aid in facilitating the transfer of knowledge and lessons learned for the deactivation & decommissioning community.
- Contributed in the development of a Knowledge Management Information Tool website by performing data mining as well as quality assurance of the database.
- Collaborated with Oak Ridge National Lab on a decision support tool to prioritize surveillance and maintenance investment and presented it as a professional poster at the Waste Management Conference 2009.

### Intern

Summer 2009, Boston Scientific, Miami FL,

- Developed a tool to aid in balancing the flow of material through a production line.
- Participated in Lean Blitz projects by performing time studies, updating work content graphs, line balancing, visual staffing

Leydi Velez
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plans and participating in value stream mapping, and lean essentials training for production workers.

### DOE Fellow Internship
Summer 2008, Oak Ridge National Laboratory (ORNL)

- Developed a decision support tool to aid in prioritizing surveillance and maintenance investment for excess facilities owned by the Department of Energy.
- Professionally recruited subject matter experts to test the tool using ORNL facilities.

### Undergraduate Office Assistant
2006-2007, Mechanical Engineering Department, Florida International University

- Responsible for recording and keeping track of expenses and purchasing material.
- Assisted in preparing budget proposals for research funding.

## SKILLS

- Microsoft Office, SPSS, Rockwell Arena, SAP.
- Fluent English and Spanish (reading, writing, speaking and presenting).