

Melissa A. Fernandez-Franco, M.S.Ed.

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EDUCATION:

- 2014-Present **Florida Atlantic University,** Boca Raton, FL
Coursework leading to Education Leadership Certification
- 2009-2011 **Nova Southeastern University** Davie, FL
Graduate coursework in Computer Technology in Education
- 2006-2008 **Barry University,** Miami, FL
Masters in Educational Technology
- 2002-2006 **Florida International University,** Miami, FL
Bachelor of Arts in Liberal Studies

EMPLOYMENT:

- 2017-Present **Chief Education Officer, EJM Advisors/Waves.Miami**
- Provide services to homeschool families including annual educational portfolio reviews and academic counseling services
 - Developer behind Waves Early Elementary Science Curriculum
- 2017-Present **Lead Teacher MAST Academy High School,**
- Advanced Placement (AP), Cambridge and Dual Enrollment (DE) Coordinator
 - Magnet Lead for Maritime Science and Cambridge Programs
 - Duties include: Magnet Schools of Excellence Application Lead, Critical Incident Response Team (CIRT) Member, EESAC Representative, Curriculum Council Representative,
- 2014-2017 **Instructional Supervisor for Technology Education and Industrial Education Miami-Dade County Public Schools,**
- Responsibilities included district oversight of 6-12 Engineering & Technology Programs to include Graphic Design, Materials & Processes, Technical Design, and Applied Engineering technology courses as well as grade 6-Postsecondary Industrial Education courses including Air-Conditioning, Refrigeration and Heating Technology, Drafting, Building Construction, Television Production, Automotive Collision & Service, and Aviation
 - Responsible for section of the Perkins Grant Budget and management of Perkins grant funds in excess of 1 Million dollars.
- 2006-2014 **Teacher MAST Academy High School,**
- Teaching assignments included: AP Computer Science, Applied Engineering Technology (1-3), Engineering (1-3), Advanced Applications, LEGO Robotics, Web Design, Information Technology, TV Production and the MAST Mariner Summer Program.
 - Extracurricular duties included: Department Head, FIRST Tech Challenge Team Sponsor, FIRST LEGO League Team Sponsor, VEX Team Sponsor, TSA Sponsor, MATE Team Sponsor, Ten80 Team Sponsor, SECME Coordinator, Cheerleading Coach, and Class Sponsor.
 - Volunteer duties included: SACS Committee Chairperson, EESAC Representative, MAST Summer Program Coordinator, Gradebook Manager, Curriculum Council Representative, Youth Fair Coordinator, and School Safety Committee Representative.
- 2011-Present **Independent Consultant**
- Dream It Do It (DIDI) Manufacturing Camp: South Florida Program Coordinator and instructor
 - Central Florida Assessment Collaborative: Item Specification Developer & Question Writer for end of course examinations
 - Evaluation Systems Group of Pearson: Participated in Florida Teacher Certification Exam (FTCE) Development for both Computer Science K-12 and Technology Education 6-12 subject area tests. Participation included question writing, item and test form validation and standard setting.

- Coast Guard Academy Robotics on the Water (CGAROW) Outreach Program: As Head Program Developer was responsible for writing STEM curriculum modules for use with the CGAROW program, conducting preliminary evaluation of existing curriculum modules, and assisting with the development of CGAROW in a Box kit.

2002-2006 **Microsystems Technician, MAST Academy High School,**
Designed and administered school's primary web site, administered and maintained the school's databases, and was responsible for computer maintenance and repair.

PROFESSIONAL DEVELOPMENT:

July 16, 2014	Google National Computer Science Principles Education Summit,	St. Charles, IL
June 2014	Research Experience for Teachers (RET) Participant, <i>Florida International University</i>	Miami, FL
Oct. 2012	American Vacuum Society (ACS) Science Educators' Workshop,	Tampa, FL
July 2012	Marine Advanced Technology Education (MATE) Center, <i>"Advanced Remotely Operated Vehicle (ROV) Building for Classroom Projects"</i>	Monterey, CA
June 2012	Florida Advanced Technological Education Center,	Hillsborough, FL
Oct. 2011	Florida Atlantic University's Southeast National Marine Renewable Center (SNMREC), <i>"Ocean Energy Technology Teacher Training"</i>	Boca Raton, FL
July 2011	Marine Advanced Technology Education (MATE) Center, <i>"Building and Tracking Ocean Drifters"</i>	Monterey, CA
July 2010	Research Experience for Teachers (RET) Participant, <i>Florida International University'</i>	Miami, FL
March 2010	Meet MIMO: A Conference on Mid-Century Modernism,	Miami, FL
June 2009	American Society of Materials (ASM) Materials Camp, <i>"Teachers' Camp"</i>	New Orleans, LA
July 2008	Marine Advanced Technology Education (MATE) Center, <i>"Intermediate Remotely Operated Vehicle (ROV) Building for Classroom Projects"</i>	Monterey, CA

CURRENT CERTIFICATIONS:

April 2015 ***Certified SolidWorks Associate (C-6SWGBFB8SL)***
 April 2016 ***Autodesk Inventor Certified User Exam – Imperial***
 June 2006 **5 Year Renewable Professional Teaching Certification**
Subject Areas: Computer Science, Engineering & Technology Education

AWARDS:

Nov. 2014 ***Samsung Solve for Tomorrow State Finalist, Florida***
 April 2013 ***REC Foundation National Teacher of the Year***
 2013-2014 ***Central Region Teacher of the Year Finalist, Miami-Dade County Public Schools***
 Sept. 2012 ***Florida Department of Education Engineering Technology Program Review Committee***
 Jan. 2012 ***Miami-Dade County Public Schools SECME High School Teacher of the Year***
 Dec. 2011 ***Education Fund Teacher Champion***
 Nov. 2010 ***Certified Solidworks Association Certification (CSWA) (Certificate ID: C-6SWGBFB8SL)***
 March 2010 ***Meet MIMO Teacher Scholarship Recipient***
 March 2007 ***Rookie Teacher of the Year, MAST Academy High School***

VOLUNTEER EXPERIENCES:

March 2014 ***International Participants Coordinator for the State Hosting Committee, International Technology & Engineering Education Association (ITEEA) Conference***
 Jan. 2012 ***Engineering Technology Curriculum Review Committee, State of Florida***
 2008-Present ***Robotics Division Superintendent, Miami-Dade County Youth Fair***

2006-2010 **Programming Competition Test Writer, Miami-Dade County Youth Fair**

GRANTS:

Oct. 2014	UTD President's Grant <i>Ten80 Racing into School</i>	June 2010	Education Fund Disseminator Grant <i>Designing Underwater Vehicles</i>
Oct. 2012	SECME Exxon-Mobil Mini-Grant <i>SECME Girls Initiative – Engineering Design Comes in Many Shapes</i>	Jan. 2010	Education Fund Teacher Mini-Grant <i>Designing Underwater Vehicles</i>
Oct. 2012	American Vacuum Society (AVS) Equipment Grant	July 2007	Living in a Material World Grant
Jan. 2011	Education Fund Teacher Mini-Grant <i>Preventing Saltwater Corrosion</i>		

PROFESSIONAL MEMBERSHIPS:

2011-Present	International Technology and Engineering Educators' Association (ITEEA)	2012-Present	Computer Science Teachers' Association (CSTA)
2008-2014	Florida Technology & Engineering Educators' Association (FTEEA) <i>President, 2010-2011</i> <i>President Elect, 2009-2010</i>	2012-Present	American Institute of Aeronautics and Astronautics (AIAA)
		2009-2011	Institute of Electrical and Electronics Engineers (IEEE)