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### **PROFESSIONAL PREPARATION**

University of South Florida, Tampa, FL Electrical Engineering, Bachelor of Science, 08/83  
University of South Florida, Tampa, FL Electrical Engineering, Master of Science, 08/85  
University of South Florida, Tampa, FL Electrical Engineering, Ph.D., 12/93

### **APPOINTMENTS**

08/08- Present **Professor**, Department of Electrical Engineering, University of South Florida.  
10/00 – 7/08 **Associate Professor**, Department of Electrical Engineering, University of South Florida.  
06/00 – Present **Director** for the Ibero American Science and Technology Educational Consortium at  
USF (USF-ISTEC).  
08/94 – 09/00 **Assistant Professor**, Department of Electrical Engineering, University of South Florida

### **CONSULTANT EXPERIENCE**

06/14 – 08/14 Consultant, Leidos – Senior Systems Engineer  
06/12 – 08/12 Consultant, SAIC – Systems Engineer  
06/07 – 08/08 ISTECP VP of Strategic Planning while on Sabbatical  
05/05 – 08/05 Consultant, Boeing – SAIC - Systems Engineer.

### **PRODUCTS**

#### **Five products most closely related to the project:**

1. Luis Fernando Cruz Quiroga, Joel Howell, Wilfrido Alejandro Moreno, “Ethical Education in Engineering: A Pedagogical Proposal Based on Cognitive Neurosciences and Adaptive Complex Systems”, 126<sup>th</sup> Annual ASEE Conference and Exposition, Tampa, Florida, June 15-19, 2019.
2. Joel Howell, Christos Ferekides, Thomas Weller, Arash Takshi and Wilfrido Alejandro Moreno, “Preparing Engineering Students for their Profession - A Novel Curricular Approach”, 126<sup>th</sup> Annual ASEE Conference and Exposition, Tampa, Florida, June 15-19, 2019.
3. Prashanth Chetlur Adithya, Shraddha Pandey, Jose. A. Caballero, Ozgur Yurur and Wilfrido. A. Moreno, “Systems Engineering Framework to Design a Laboratory Course: A Case Study”, ASEE Southeastern Section Conference, Daytona Beach, Florida, March 4-6, 2018.
4. Luis Fernando Cruz Quiroga, Wilfrido Alejandro Moreno, Dulce Garcia, “A Model to Pedagogically Support Teaching & Learning Scenarios for Engineering Innovation from a Complexity Sciences Perspective”, World Engineering Education Forum (WEEF 2013), September 24 – 17, 2013, Cartagena – Colombia
5. Luis Fernando Cruz Quiroga, Wilfrido Alejandro Moreno, “Curriculum Development for Engineering Education, from a Complexity Perspective, to Meet the Challenges of the XXI Century”, World Engineering Education Forum (WEEF 2012), October 15 – 18, 2012, Buenos Aires, Argentina

#### **Five other significant products:**

1. “Light-Weight Online Unsupervised Posture Detection by Smartphone Accelerometer”, Özgür Yürür, Chi Harold Liu, Member, IEEE, and Wilfrido Moreno, IEEE Internet of Things Journal, VOL. 2, NO. 4, AUGUST 2015
2. “Energy-Efficient and Context-Aware Smartphone Sensor Employment” Özgür Yürür, Chi Harold Liu, Charith Perera, Min Chen, Xue Liu, and Wilfrido Moreno, IEEE Transactions on Vehicular Technology, VOL. 64, NO. 9, SEPTEMBER 2015
3. “Power Usage of Humanoid Standing Process Using Q-Learning”, Ercan Elibol, Juan Calderon, Martin Llofriu, Carlos Quintero, Wilfrido Moreno, and Alfredo Weitzenfeld, Lectures Notes in Artificial Intelligence, Springer International – eBook, 2015
4. “Fuzzy Variable Stiffness in Landing Phase for Jumping Robot”, Juan M. Calderón , Wilfrido Moreno, Alfredo Weitzenfeld, Innovations in Bio-Inspired Computing and Applications – Book chapter, Volume 424 of the series Advances in Intelligent Systems and Computing pp 511-522, Date: 15 December 2015
5. United State Patent No. 6,258,633, Issued: July 10, 2001, titled: “Laser-Programmable Interconnect of Integrated Circuits Chips (ICS)”.

### **SYNERGISTIC ACTIVITIES**

1. Committee Chairman, Florida Florida Learning Community (STEM disciplines) for the Consortium of Metropolitan Research Universities: FIU, UCF and USF
2. As the Director of the R&D ISTECE Initiative, Dr. Moreno created the Ibero-american Complex System and Education Network (SCED). The first area of application is in Education and is led by Dr. Luis Fernando Cruz from the Univeridad del Bosque, Bogota – Colombia. In addition, Dr. Moreno is the initiator of the Ibero-American Nanotechnology Centers Network (IBANCN) formed by over 10 Micro/Nano research centers throughout Latin America.
3. Conducted over thirty workshops in the areas of Digital Signal Processing, Controls, Electronic Design (FPGA/VHDL) and Systems Engineering in the following nations: Bolivia, Brazil, Colombia, Ecuador, Mexico, Peru, Puerto Rico, United States and Venezuela
4. Developed and delivered a new graduate course on line in the Fall of 2013: EEL 6935 – Agile System of Systems Engineering & Modeling (For Professionals)
5. Member of the International Council on Systems Engineering (INCOSE).

### **COLLABORATORS AND CO-EDITORS (6)**

1. Luis Fernando Cruz Quiroga, MD, Ph.D., Director of the Ibero-American Complex Systems & Education (SCED-ISTEC) Network & Universidad del Bosque, Bogotá – Colombia
2. Fernando Falquez, Ph.D., Honeywell Aerospace, Senior Staff Engineer (RET) & USF Adjunct Faculty
3. Yashwant Pathak, M Pharm, EMBA, MS (Conflict Management), Ph.D., University of South Florida, College of Pharmacy/USF Health, Associate Dean for Faculty Affairs
4. Balaji Ramadoss, Ph.D., Founder and CEO, Edgility - Cognitive Healthcare
5. Antonio Ruiz, Ph.D., Leidos (former SAIC), Chief Systems Engineer & Leidos Technical Fellow
6. Ozgur Yurur, Ph.D., RF Micro Devices Inc., Sr. Embedded Developer

### **GRADUATE ADVISOR (1)**

Samuel Garrett, University of South Florida (retired)

### **THESIS AND DISSERTATION ADVISEES**

Over sixty MS level students and twenty Ph.D. students have obtained their degrees under his direct supervision.