

David A. Ortiz-Lopez

OBJECTIVE:

Full-time position in an education institution, where I may apply my knowledge and skills as an instructor and researcher in Electrical and Computer Engineering

EDUCATION:

2007: Degree:	University of Puerto Rico, Mayagüez Campus M.S. in Electrical Engineering, Specialization: Electronics
2003: Degree:	National University of Colombia, Manizales Campus B.S. in Electronic Engineering

WORK EXPERIENCE:

January 06 to Present:	Research Assistant Engineering Research Center for Wireless Integrated Microsystems University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico <ul style="list-style-type: none">Implementation of software optimization techniques on representative benchmarks of embedded applicationsEvaluation of the impact of such optimizations on power consumption of embedded platforms
January 07 to May 07:	Research Assistant Lockheed Martin University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico <ul style="list-style-type: none">Research about different performance evaluation metrics, and different measurement and instrumentation methods for FPGA platforms
August 05 to May 06:	Electronics Teaching Assistant University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico <ul style="list-style-type: none">Manipulation of laboratory measurement equipmentTaught students different experiments with electronic components and devices
June 04 to December 04	Industrial Batteries Executive Agent COEXITO S.A., Cartagena, Colombia <ul style="list-style-type: none">Customers technical serviceSearch of new customers of Industrial batteries

PUBLICATIONS:

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- D. A. Ortiz, N. G. Santiago, "*High-Level Optimization for Low Power Consumption on Microprocessor-Based Systems*", 50th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS'07), Montreal, Canada, Aug. 2007.
 - D. A. Ortiz, N. G. Santiago, "*Impact of Machine-Independent Optimizations on Power Consumption of Embedded Systems*", 2008 IEEE International Symposium on Circuits and Systems (ISCAS'08), Seattle, WA. May. 2008. (Submitted).

KEY SKILLS AND COMPETENCIES:

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- Knowledge in analog and digital systems design
 - Capable of working with embedded systems such as Microcontrollers and FPGAs
 - Able of programming using C, VHDL, Verilog, LabVIEW, and Assembly languages
 - Skills of multidisciplinary team interaction

MEMBERSHIPS:

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- Member of the IEEE Circuits and Systems Society, Mayagüez Student Chapter
 - Member of AIESEC, Puerto Rico Local Committee
 - Member of IICOM-CIAPR, Mayagüez Chapter

REFERENCES: Available upon request