

EDUCATION

Mayaguez, PR	University of Puerto Rico at Mayaguez (UPRM)	August 2010 - Present
<ul style="list-style-type: none">• Degree: Fourth Year, Pursuing a BS in Computer Engineering – GPA: 3.30/4.00• Expected Graduation Date: May 2015 (Five-Year Program)• Relevant Coursework: Advanced Programming (Java), Electrical System Analysis, Logic Circuits, and Microprocessors• Current Coursework: Data Structures and Networking & Routing Fundamentals		

WORK & RESEARCH EXPERIENCE

Technology Audit & Risk Assurance	Goldman Sachs – New York, NY	May 2013 – August 2013
<ul style="list-style-type: none">• Participated in all phases of the audit execution process; meeting with stakeholders to understand and document business and technology processes while identifying key risks and mitigating controls in the FICC (Fixed Income Commodities & Currency) space.• Responsible for validating BCP (Business Continuity Planning) test scripts to confirm proper failover of applications, processes, and technology infrastructure.• Performed code review throughout different applications to confirm adherence to business and technology requirements.• Developed a script in a Custom OO (Object Oriented) Language to retrieve trade information across various Databases to improve efficiency among business auditors.		

Lead Developer	University of Texas - El Paso, TX	May 2012 – August 2012
Project: <i>Speeding Up Discrete Event Simulation Using General Purpose Graphics Processing Units (GPGPUs)</i>		
<ul style="list-style-type: none">• The goal of this project was to determine if new discoveries in the field of communications could be done faster by reducing the execution time of discrete event simulations. These simulations rely heavily on pseudo-random number generators.• Improved random number generation by up to 135% in some cases, by using GPGPUs and parallel programming. Developed the core in C language in conjunction with the CUDA and cuRAND libraries.		

Research Assistant (Developer)	University of Puerto Rico – Mayaguez, PR	January 2012 – December 2012
Project: <i>CUDA Biomedical Imaging Acceleration Test-Bed (BIAT)</i>		
<ul style="list-style-type: none">• The goal of this project was to develop an open-source cross-platform library that can be used in the detection of cancerous cells in the human body.• Assist in the development of a parallelized version of the Mahalanobis Distance Algorithm to analyze and interpret Hyperspectral images. The code was developed in C language in conjunction with the CUDA and cuBLAS libraries.		

IT Specialist	Empresas Tu Hogar, Inc. – Isabela, PR	June 2007 – December 2012
<ul style="list-style-type: none">• Saved the company approximately \$3,000 per month by implementing a VoIP communications system and a biometric punching system. Headed all phases of the project; planning, budgeting, testing, implementation, employee training, and troubleshooting. Reduced human related errors in payroll by eliminating manual time card calculations. (<i>Company's Annual Revenue: \$15M</i>)		

ENTREPRENEURSHIP

Online Affiliate Marketer	Points4Fun & Promos4Free – Virtual	February 2009 – December 2012
<ul style="list-style-type: none">• Planned, created, and modified online campaigns to generate revenue from online sales of products, services, and lead generation. Total revenue generated was \$37,000.• Tested and implemented different traffic sources such as: Email (Single & Double Opt-in), PPV (Pay-Per-View), GPT (Get Paid To), and Social Media Marketing (Facebook).		

TECHNICAL PROJECTS

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- **MyContacts (2013)** – Class Project. Phonebook Mobile App with Custom SortedArrayList. *Android SDK & Java*
 - **Polynomial Solver (2013)** – Solves Polynomials using synthetic division and uses LEDs to display result. *MSP430 & Assembly*
 - **AimTo (2012)** – Incentive-Based Task Completion Mobile App designed for families and businesses. *Appcelerator & Android SDK*
 - **Poker Memory (2012)** – Class Project. Memory game mixed with Poker. *Eclipse & Java*
 - **SpaceWars (2012)** – Class Project. Game objective similar to Galaga. *Eclipse & Java*

PROFESSIONAL AFFILIATIONS & HONORS

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- **Lead Coordinator** – 1st Hackathon @ UPRM March 2013
 - **Delegate** – General Student Council of the UPRM – Engineering August 2012 – May 2013
 - **Vice President** – Association for Computing Machinery (ACM.ECE) August 2012 – May 2013
 - **Member** - ACM, IEEE, IEEE Computer Society, CAHSI, and Leadership Congress of Puerto Rico January 2011 – Present
 - 2012 Boeing Scholarship Recipient August 2012
 - **HENAAC National Conference** – College Captain & College Bowl Participant October 2012

COMMUNITY SERVICE

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- **Project:** *Drunk Driving Awareness Program* - FIESTA Colegial
 - The goal of this project is to raise awareness to the community, especially students, about the effects of drunk driving and how it should be avoided at all costs. Educational conferences and community outreach is offered through all possible social channels.

LANGUAGES & TECHNOLOGIES

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- Basic Proficiency: Assembly, C, Python, Java, JavaScript, and HTML & CSS
 - Eclipse and Titanium Studio