

Jorge Moreno Piñero

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Objectives:

Apply for full-time position that will utilize my engineering skills and offer me opportunities to further advance in my career.

Education:

University of Puerto Rico, Mayagüez Campus

B.S., Computer Engineering

Expected Graduation Date: Jan 2011

GPA: 2.85

Related Courses: Data Structures, Advanced Programming, Programming Languages, Electronics, Microprocessors, Computer Architecture Design, Digital Electronics, Network Security and Cryptology.

Short Courses:

TI UPRM Workshop : Countdown – Project Management	Feb. 2008
8 our work shop on project management	
TI UPRM Workshop : The Dynamics of Great Teams	Nov. 2008
8 hour work shop on project teamwork	
Intuitive Approach to Analog IC Design	Mar. 2009
4.5 hour workshop on analog IC design	

Work Experience:

University of California Berkeley, Berkeley CA	Jun. 2010 – Aug. 2010
Worked on the Cubesat for Ion, Neutral, Electron, Magnetic fields (CINEMA) project. Build and test the sun sensors used on the satellite. Test the Attitude Control System (ACS) software on a dsPIC33 on a Pumpkin board.	
University of Puerto Rico, Mayagüez PR	Jan. 2008 – Dec. 2008
Worked on a research project to emulate an Agilent 4142 on a Keithley 2600 series Source Measurement Unit (SMU). Designed and implemented a software framework in Lua which runs on the Keithley unit providing plug-and-play compatibility with the Agilent 4142. (http://ece.uprm.edu/~etclab/projects/hp4142emul/index.html)	
Puesta del Sol, Rincon PR	Sept. 2006–Mar. 2007
Bartender	
Outlaws Steak House, Rincon PR	Feb. 2003– Nov. 2003
Waiter	
Hampton University, Hampton VA	Jul. 2001 – Aug. 2001
Intern at the Science & Technology Corporation (STC) working with the company's network administrators. During this time, attended advancement classes at Hampton University	

Published Work:

J. Moreno, O. Gonzalez, R. Vega, R. Palomera and M. Jimenez, "Emulating an Agilent 4142 on a Keithley 2600 Series Source Measurement Unit," *Test Workshop, 2010. LATW'10. 11th Latin American*, March 2010. (http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5550376)

Class Projects:

Microcontroller Interconexions:

Develop a basic B-Dot attitude control system for a 3u cubesat.

Cryptology:

Make a Captcha using 3D images with various elements using JAVA.

Network Security & Administration:

Created a program to monitor text messaging for cell phones running Android O/S.

Programming Languages:

Designed a Spanish card game application for cell phones running Android O/S.

Electric Measurements Lab:

Designed and built a 2-12 volt variable DC power supply capable of sourcing a maximum of 2 amps.

Microprocessors:

Wrote the code for a simple shell prompt using Microsoft Assembly Language (MASM).

Microprocessor Interfacing:

Designed and built a rotating persistence of vision (POV) LED display using an MSP-430 microcontroller.

Computer System Architecture:

Designed an 8-bit 8086 processor using Logic Works.

Skills:

- Can communicate fluently in both English and Spanish.
- Programming Languages: JAVA, C, C++, C#, Lua, Python, PyLab, HTML, MatLab, Assembly, LaTeX and Mathematica.
- Software Skills: Microsoft Office, Microsoft Visual Studio, Open Office, Eclipse IDE, Android SDK, Python IDE, Bash, IAR Embedded Workbench, Code Composer, MP Lab, Logic Works, MatLab, Cadence, P-Spice, Eagle Layout Editor, Mathematica and Test Script Builder.

Extracurricular:

- Webmaster for the Electronics Testing & Characterization (ETC) Laboratory at the University of Puerto Rico. (<http://ece.uprm.edu/~etclab>)
- Volunteer work with the American Cancer Society

References:

- Dr. Manuel A. Jimenez
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University of Puerto Rico at Mayagüez
- Dr. Rogelio Palomera
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PI – Puerto Rico Cubesat Project
Interamerican University at Bayamon