Gabriel **Blanco**

gab2135@columbia.edu • (513) 417-5506

primary address
6708 Cheyenne Trail
Minneapolis, MN 55439

university mailbox
1590 Lerner Hall
2920 Broadway
New York, NY 10027

Education

Columbia University: Fu Foundation School of Engineering and Applied Science — New York, NY
B.S. in Computer Engineering — Exp. **May 2015**

Professional Experience

IT Leadership Program Intern • GE Aviation
Evendale, OH
May 2013 - August 2013

- Built cycletime analytics dashboard for GE internal web applications
- Designed front-end interface for the Platform & Product Services web portal
- Developed a pricing formula and costing tool for 2014 server provisioning
- Wrote a comprehensive, customer-facing guide for provisioning new applications

Physics Lab Research Assistant • University of Cincinnati
Cincinnati, OH
May 2012 - August 2012

- Tested electro-magnetic properties of metal oxide compounds for effectiveness in use for intravascular cancer treatment
- Studied hyperthermic properties of nano-particles when subjected to high-freq electric fields
- Established procedure to affordably and reliably synthesize particles of suitable size and density
- Gained practical experience with technical lab equipment

Private Tutor • 36 Education
New York, NY
December 2011 - May 2013

- Tutored and prepared high school students to take the ACT and SAT
- Developed good communication skills by teaching students of widely different skill levels
- Created new educational content such as problem sets, training packets, etc.

Projects and Lab Work

Motorola SPI Bus • Advanced Logic Design
Designed, modeled and simulated the operation of a Serial Peripheral Interface Bus (both a Master and Slave unit) using RTL design. Improved basic functionality by adding bit-inversion logic to reduce average power consumption during data transmission. Programmed design using VHDL, then created comprehensive testbench to test robustness.

Music Key Identifier • Digital Signal Processing
Created a MATLAB program that uses digital filters, fast fourier transforms and waveform analysis to process a digital music file, find the most common tones and return with a fair degree of accuracy the most likely key of that song, as well as how well it conforms or diverges from that given key.

Relevant Coursework

- Advanced Logic Design
- Digital Signal Processing
- Electronic Circuits
- Advanced Programming
- Data Struct. and Algorithms
- Operating Systems (Spring 2014)
- Computer Networks (Spring 2014)

Skills

Programming	Python, Java, C, MySQL, HTML, CSS, JavaScript, VHDL
OS Experience	Linux, Mac and Windows
Languages	Native Spanish speaker and fluent in French
Activities	Columbia IEEE Head of Recruiting and Mentorship Web Master and Historian for Uptown Vocal A Cappella group