

BARUCH TABANPOUR

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EDUCATION

Columbia University

May 2015

MS Applied Physics and Applied Mathematics, PhD track

GPA: 3.87 / 4.00

The City College of New York, Macaulay Honors College

February 2014

Bachelor of Engineering (Electrical Engineering), Minor in Physics

GPA: 3.96 / 4.00, Summa Cum Laude

TECHNICAL SKILLS

- Software: Python/Django, SQL, R, MATLAB, Java, PHP, Linux/Unix, JavaScript/jQuery, HTML/CSS
- Hardware: C++, LabVIEW, PIC, Atmega
- Citizenship: U.S., France

EXPERIENCE

Lead Developer – Columbia University

May-Aug 2014

- Led the development of an educational Django social media web application to facilitate Peer Instruction.
- The app was used in a physics course offered at Columbia during the Fall 2014.

Web and Database Developer – City Trek, NYC

Feb-Dec 2013

- Developed a bus tracking LAMP server, database, website, and phone application service for tracking City College buses and MTA subways.

Research Assistant – CUNY Laboratory for Nano and Micro Photonics

June-Oct 2013

- Measured and simulated strong coupling phenomena in nanophotonic structures.
- Presented findings at CUNY research symposium.

Summer Research Fellow – National Institute of Standards in Technology, Boulder, CO

May-Aug 2012

- Created a novel LabVIEW program and measurement setup to run FMR on a superconducting magnet.
- Collected and fit resonance data, and improved MATLAB code with GUI.

Independent Study – CUNY Center for Advanced Technology

Dec-May 2012

- Independently designed and tested Laser Interlock System to meet ANSI class IV laser safety guidelines.
- Programmed microcontroller in C++, and researched optical cloaking in metamaterials.

Research Intern – NASA Goddard Institute of Space Studies, NYC

May-Aug 2010

AFFILIATIONS

Co-organizer, Data Science Hackathon, March 2015

Secretary and Treasurer, Eta Kappa Nu Beta Pi Chapter, Honor Society of the IEEE, 2011-2013

Member, Tau Beta Pi, 2011-present

HONORS/AWARDS

Morin Foundation Engineering and Science Scholar at Macaulay Honors College, 2012

Brooklyn Technical High School Scholarship, 2009-2013

Association of the Old Crows Scholarship, 2011

Major Schultz 1925 Award for Outstanding Achievement in Engineering, 2009